Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 82775 and PSDTX1101

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)
Point Sources				
S-C-36	Preheater/Precalciner Kiln and Inline Raw Mill	NO_x (5)	209	825
		CO (5)	233	919
		SO_2(6)	478	104
		$PM_{2.5}$ (filterable)(7)	1.36	4.95
		PM_{10} (filterable)(7)	3.01	11.0
		PM (filterable)(7)	3.01	11.0
		$PM_{2.5}$ (Total) (7)	71.29	118.3
		PM_{10} (Total) (7)	158.4	271.2
		PM (Total) (7)	158.4	271.2
		H_2SO_4 (7)	20.1	27.6
		VOC (7)	33.9	121
		Lead (7)	0.09	0.34
		Mercury (5)	0.0032	0.012
		HCl (7)(8)	19.5	18.4
		HF (7)	0.9	3.3
		Ammonia (7)	33.94	121
S-A-26	Limestone Hopper, Primary Crushing, and Conveying	PM	0.82	3.24
		PM_{10}	0.70	2.75
		$PM_{2.5}$	0.21	0.81
S-A-27	Limestone Conveying and Screening to Overland Conveyor	PM	0.82	3.24
		PM_{10}	0.70	2.75
		$PM_{2.5}$	0.21	0.81
S-A-28	Overland Conveyor Transfer to Raw Material Storage	PM	0.14	0.57
		PM_{10}	0.12	0.49
		$PM_{2.5}$	0.04	0.14
S-A-29	Transfer to Limestone Pile in Raw Material Storage Building North	PM	0.17	0.67
		PM_{10}	0.14	0.57
		$PM_{2.5}$	0.04	0.17
S-A-30	Transfer to Limestone Pile in Raw Material Storage Building South	PM	0.82	3.24
		PM_{10}	0.70	2.75
		$PM_{2.5}$	0.21	0.81
S-A-31	Limestone Pile Reclaim to Belt 222017	PM	0.14	0.57
		PM_{10}	0.12	0.49
		$PM_{2.5}$	0.04	0.14
S-A-32	Transfer to Limestone Bin	PM	0.24	0.95

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		PM_{10}	0.21	0.81
		$PM_{2.5}$	0.06	0.24
S-A-35	Raw Material Conveying to Clay Bins; Clay Bin Weigh Feeders to Belt 22146	PM	0.41	1.62
		PM_{10}	0.35	1.38
		$PM_{2.5}$	0.10	0.40
S-A-36	Belt Conveyor 213020 to Sand/Iron Ore/Alumina Bins	PM	0.29	1.14
		PM_{10}	0.25	0.97
		$PM_{2.5}$	0.07	0.29
S-A-37	Sand/Iron Ore/Alumina/Clay Weigh Feeders to Belt 222150	PM	0.34	1.33
		PM_{10}	0.29	1.13
		$PM_{2.5}$	0.08	0.33
S-A-38	Limestone and Raw Material Transfer from Belt 222150 to Belt 222170	PM	0.24	0.95
		PM_{10}	0.21	0.81
		$PM_{2.5}$	0.06	0.24
S-B-17	Raw Mill Conveying	PM	0.39	1.52
		PM_{10}	0.33	1.30
		$PM_{2.5}$	0.10	0.38
S-B-18	Raw Mill to Belt 241635	PM	0.21	0.82
		PM_{10}	0.18	0.70
		$PM_{2.5}$	0.05	0.21
S-B-19	Raw Mill to Belt 241400 to Elevator 241415 to Belt 241420	PM	0.21	0.82
		PM_{10}	0.18	0.70
		$PM_{2.5}$	0.05	0.21
S-B-20	Belt 241420 Transfer to Belt 241421	PM	0.21	0.82
		PM_{10}	0.18	0.70
		$PM_{2.5}$	0.05	0.21
S-B-21	Belt 241421 Conveying to Raw Silos	PM	0.21	0.82
		PM_{10}	0.18	0.70
		$PM_{2.5}$	0.05	0.21
S-B-22	Belt 241421 to Raw Silos Elevator 241436	PM	0.21	0.82
		PM_{10}	0.18	0.70
		$PM_{2.5}$	0.05	0.21
S-B-23	Raw Silos Elevator 241436 to Belt 241437 and Airslides to Silos	PM	0.21	0.82
		PM_{10}	0.18	0.70
		$PM_{2.5}$	0.05	0.21
S-B-24	Raw Silos Airslides, West	PM	0.06	0.22
		PM_{10}	0.05	0.19
		$PM_{2.5}$	0.01	0.06
S-B-25	Raw Silos Airslides, Middle	PM	0.06	0.22
		PM_{10}	0.05	0.19
		$PM_{2.5}$	0.01	0.06
S-B-26	Raw Silos Airslides, East	PM	0.06	0.22
		PM_{10}	0.05	0.19
		$PM_{2.5}$	0.01	0.06
S-B-4	Raw Silo Elevator	PM	0.62	2.29
		PM_{10}	0.52	1.95
		$PM_{2.5}$	0.15	0.57
S-B-12	BTM Raw Silo, North	PM	0.33	1.24
		PM_{10}	0.28	1.05
		$PM_{2.5}$	0.08	0.31
S-B-13	BTM Raw Silo, Center	PM	0.33	1.24

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		PM_{10}	0.28	1.05
		$PM_{2.5}$	0.08	0.31
S-B-14	BTM Raw Silo, South	PM	0.33	1.24
		PM_{10}	0.28	1.05
		$PM_{2.5}$	0.08	0.31
S-B-27	Feed from Raw Silos Belt 241585 to Belt 241600	PM	0.21	0.82
		PM_{10}	0.18	0.70
		$PM_{2.5}$	0.05	0.21
S-B-28	Belt 241600 to Bucket Elevator 241820 to Belt 241635	PM	0.21	0.82
		PM_{10}	0.18	0.70
		$PM_{2.5}$	0.05	0.21
S-B-29	Kiln Feed Conveying from Raw Silos on Belt 241635	PM	0.24	0.94
		PM_{10}	0.20	0.80
		$PM_{2.5}$	0.06	0.23
S-C-34	Kiln Feed Bin and Conveying to Elevator 241720	PM	0.38	1.50
		PM_{10}	0.32	1.27
		$PM_{2.5}$	0.10	0.37
S-C-35	Kiln Feed Bucket Elevator 241720 to Belt 241725 to Kiln	PM	0.24	0.96
		PM_{10}	0.21	0.81
		$PM_{2.5}$	0.06	0.24
S-C-31	Clinker Cooler (CC) Baghouse #1	PM (filterable)	1.00	3.94
		PM (Total)	1.86	6.78
		PM_{10} (Total)	1.41	5.16
		$PM_{2.5}$ (Total)	0.74	2.71
S-C-32/33	CC Baghouses #2 and #3 (Combined Stack)	PM (filterable)	2.00	7.88
		PM (Total)	3.32	13.57
		PM_{10} (Total)	2.82	10.31
		$PM_{2.5}$ (Total)	1.49	5.43
S-C-37	Clinker Cooler Transfer to Clinker Cooler Pan Conveyor 330500	PM	0.21	0.84
		PM_{10}	0.18	0.72
		$PM_{2.5}$	0.05	0.21
S-C-40	Clinker Conveyor 330500 to Elevator 330610, to Belts 330630/330640 or to Transition Silo Elevator	PM	0.24	0.94
		PM_{10}	0.20	0.80
		$PM_{2.5}$	0.06	0.23
S-C-46	Upset Clinker Bin	PM	0.29	1.12
		PM_{10}	0.24	0.96
		$PM_{2.5}$	0.07	0.28
S-C-47	Clinker Belt Conveyor 330790 (West)	PM	0.24	0.94
		PM_{10}	0.20	0.80
		$PM_{2.5}$	0.06	0.23
S-C-48	Clinker Belt Conveyor 330770 (East)	PM	0.24	0.94
		PM_{10}	0.20	0.80
		$PM_{2.5}$	0.06	0.23
S-C-49	Clinker Belt 330790 to Belt 330860 (West)	PM	0.43	1.69
		PM_{10}	0.36	1.43
		$PM_{2.5}$	0.11	0.42
S-C-50	Clinker Belt 330770 to Belt 330771 to Belt 330773 (East)	PM	0.33	1.31
		PM_{10}	0.28	1.12
		$PM_{2.5}$	0.08	0.33
S-C-57	Belt 330776 (East)/Belt 330860 (West) to Clinker/Additive Storage Building	PM	0.24	0.95

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.21	0.81
		$PM_{2.5}$	0.06	0.24
S-C-58	Bin #A – Main/Offspec Clinker	PM	0.29	1.14
		PM_{10}	0.25	0.97
		$PM_{2.5}$	0.07	0.29
S-C-59	Bin #B – Main/Offspec Clinker or Limestone	PM	0.24	0.95
		PM_{10}	0.21	0.81
		$PM_{2.5}$	0.06	0.24
S-C-60	Bin #C/D – Gypsum, Slag, or Limestone	PM	0.24	0.95
		PM_{10}	0.21	0.81
		$PM_{2.5}$	0.06	0.24
S-C-61	Bin #E – FM#6 Fast Track Feed Bin – Clinker/Limestone	PM	0.24	0.95
		PM_{10}	0.21	0.81
		$PM_{2.5}$	0.06	0.24
S-C-62	Bin #F – Main/Offspec Clinker	PM	0.24	0.95
		PM_{10}	0.21	0.81
		$PM_{2.5}$	0.06	0.24
S-C-63	Bin #G – Limestone/Offspec Clinker	PM	0.24	0.95
		PM_{10}	0.21	0.81
		$PM_{2.5}$	0.06	0.24
S-C-64	Bins #H/I – Gypsum, Slag or Limestone	PM	0.24	0.95
		PM_{10}	0.21	0.81
		$PM_{2.5}$	0.06	0.24
S-C-65	Bin #J – Main Clinker	PM	0.24	0.95
		PM_{10}	0.21	0.81
		$PM_{2.5}$	0.06	0.24
S-C-66	Calcium Hydroxide Storage Tank	PM	0.12	<0.01
		PM_{10}	0.11	<0.01
		$PM_{2.5}$	0.03	<0.01
S-D-14	South Drag Conveyor – Finish Tunnel	PM	0.74	2.91
		PM_{10}	0.63	2.48
		$PM_{2.5}$	0.18	0.73
S-D-19	North Drag Conveyor – Finish Tunnel	PM	0.74	2.91
		PM_{10}	0.63	2.48
		$PM_{2.5}$	0.18	0.73
S-B-15	FM #7 Discharge from Finish Tunnel to Elevator 509545 to Belt 509560	PM	0.34	1.33
		PM_{10}	0.29	1.13
		$PM_{2.5}$	0.08	0.33
S-B-7	FM #7 Conveying – Belt 509560 to 509565 to 509575	PM	0.46	1.81
		PM_{10}	0.39	1.54
		$PM_{2.5}$	0.11	0.45
S-D-20	FM #6 Discharge from Finish Tunnel to Bucket Elevator	PM	0.16	0.65
		PM_{10}	0.14	0.55
		$PM_{2.5}$	0.04	0.16
S-D-21	Finish Mill #6 Feed Belt	PM	0.16	0.65
		PM_{10}	0.14	0.55
		$PM_{2.5}$	0.04	0.16
S-D-22	Finish Mill #6 Separator and Air Heater (20 MMBtu/hr)	NO_x	0.73	2.87
		CO	0.50	1.96
		VOC	0.11	0.43
		SO_2	0.01	0.05

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		PM	5.19	20.48
		PM_{10}	4.42	17.40
		$PM_{2.5}$	1.30	5.12
S-D-23	FM #6 Air Slide Discharge to Cement Silos Bucket Elevator	PM	0.16	0.65
		PM_{10}	0.14	0.55
		$PM_{2.5}$	0.04	0.16
S-D-28	Belt 501058 Discharge to Bucket Elevator and FM #6 Air Slides	PM	0.27	1.07
		PM_{10}	0.23	0.91
		$PM_{2.5}$	0.07	0.27
S-D-29	FM #6 Air Slides to Westernmost Cement Silos	PM	0.22	0.87
		PM_{10}	0.19	0.74
		$PM_{2.5}$	0.05	0.22
S-D-30	FM #6 Air Slides to West Cement Silos	PM	0.22	0.87
		PM_{10}	0.19	0.74
		$PM_{2.5}$	0.05	0.22
S-D-31	FM #6 Air Slides to East Cement Silos	PM	0.22	0.87
		PM_{10}	0.19	0.74
		$PM_{2.5}$	0.05	0.22
S-D-32	Conveying from FM#7 Belt 530705 to FM #6 Bucket Elevator	PM	0.17	0.66
		PM_{10}	0.14	0.56
		$PM_{2.5}$	0.04	0.16
S-D-33	FM #6 Airslides to East Cement Silos 13 to 15	PM	0.06	0.24
		PM_{10}	0.05	0.20
		$PM_{2.5}$	0.01	0.06
S-D-34	FM #6 Airslides to East Cement Silos 16 to 18	PM	0.06	0.24
		PM_{10}	0.05	0.20
		$PM_{2.5}$	0.01	0.06
S-D-50	Belt 509575 to FM#7 and Belt 507200	PM	0.34	1.33
		PM_{10}	0.29	1.13
		$PM_{2.5}$	0.08	0.33
S-D-51	FM #7 Main Baghouse	PM	3.65	14.39
		PM_{10}	3.10	12.23
		$PM_{2.5}$	0.91	3.60
S-D-52	FM #7 Bucket Elevator 507150 to Air Separator	PM	0.29	1.14
		PM_{10}	0.25	0.97
		$PM_{2.5}$	0.07	0.29
S-D-53	FM #7 Air Separator	PM	0.63	2.49
		PM_{10}	0.54	2.11
		$PM_{2.5}$	0.16	0.62
S-D-54	FM #7 Off-Spec Bin	PM	0.14	0.55
		PM_{10}	0.12	0.47
		$PM_{2.5}$	0.04	0.14
S-D-55	FM #7 Air Slide to Cement Silos	PM	0.21	0.81
		PM_{10}	0.17	0.69
		$PM_{2.5}$	0.05	0.20
S-D-56	FM #7 Fly Ash Silo	PM	0.24	0.95
		PM_{10}	0.21	0.81
		$PM_{2.5}$	0.06	0.24
S-D-57	FM #7 Belt 530705 to Bucket Elevator 530710	PM	0.17	0.66
		PM_{10}	0.14	0.56
		$PM_{2.5}$	0.04	0.16

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S-D-58	Bucket Elevator 530710 to Belt 530715 to Belt 530730	PM	0.14	0.54
		PM_{10}	0.12	0.46
		$PM_{2.5}$	0.03	0.14
S-D-59	Belt 530730 to Belts 530786/530756/530816	PM	0.10	0.39
		PM_{10}	0.08	0.33
		$PM_{2.5}$	0.02	0.10
S-D-60	Belt 530786 to West Cement Silos 1 to 6	PM	0.09	0.34
		PM_{10}	0.07	0.29
		$PM_{2.5}$	0.02	0.08
S-D-61	Belt 530756 to West Cement Silos 7 to 12	PM	0.05	0.22
		PM_{10}	0.05	0.18
		$PM_{2.5}$	0.01	0.05
S-D-62	Belt 530816 to East Cement Silos	PM	0.04	0.16
		PM_{10}	0.03	0.13
		$PM_{2.5}$	0.01	0.04
S-D-63	FM #7 Airslides to East Cement Silos 13 to 15	PM	0.06	0.24
		PM_{10}	0.05	0.20
		$PM_{2.5}$	0.01	0.06
S-D-64	FM #7 Airslides to East Cement Silos 16 to 18	PM	0.06	0.24
		PM_{10}	0.05	0.20
		$PM_{2.5}$	0.01	0.06
S-D-7	Westernmost Masonry Cement Silo	PM	0.16	0.65
		PM_{10}	0.14	0.55
		$PM_{2.5}$	0.04	0.16
S-D-5	Westernmost Cement Silos	PM	0.16	0.65
		PM_{10}	0.14	0.55
		$PM_{2.5}$	0.04	0.16
S-D-36	West Cement Silos	PM	0.16	0.65
		PM_{10}	0.14	0.55
		$PM_{2.5}$	0.04	0.16
S-D-6	East Cement Silos	PM	0.16	0.65
		PM_{10}	0.14	0.55
		$PM_{2.5}$	0.04	0.16
S-D-37	Westernmost Cement Silos Reclaim Belt 530222 No. 1	PM	0.08	0.32
		PM_{10}	0.07	0.28
		$PM_{2.5}$	0.02	0.08
S-D-38	Westernmost Cement Silos Reclaim Belt 530222 No. 2	PM	0.08	0.32
		PM_{10}	0.07	0.28
		$PM_{2.5}$	0.02	0.08
S-D-39	Westernmost Cement Silos Reclaim Belt 530222 No. 3	PM	0.08	0.32
		PM_{10}	0.07	0.28
		$PM_{2.5}$	0.02	0.08
S-D-40	West Cement Silos Reclaim Belt 530262 No. 1	PM	0.08	0.32
		PM_{10}	0.07	0.28
		$PM_{2.5}$	0.02	0.08
S-D-41	West Cement Silos Reclaim Belt 530262 No. 2	PM	0.08	0.32
		PM_{10}	0.07	0.28
		$PM_{2.5}$	0.02	0.08
S-D-42	West Cement Silos Reclaim Belt 530262 No. 3	PM	0.08	0.32
		PM_{10}	0.07	0.28
		$PM_{2.5}$	0.02	0.08

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S-D-43	East Cement Silos Reclaim Belt 530306 No. 1	PM	0.08	0.32
		PM_{10}	0.07	0.28
		$PM_{2.5}$	0.02	0.08
S-D-44	East Cement Silos Reclaim Belt 530306 No. 2	PM	0.08	0.32
		PM_{10}	0.07	0.28
		$PM_{2.5}$	0.02	0.08
S-D-45	East Cement Silos Reclaim Belt 530306 No. 3	PM	0.08	0.32
		PM_{10}	0.07	0.28
		$PM_{2.5}$	0.02	0.08
S-D-46	Westernmost Cement Silos Belt 530222 to Bucket Elevator	PM	0.25	0.97
		PM_{10}	0.21	0.83
		$PM_{2.5}$	0.06	0.24
S-D-47	West Cement Silos Belt 530262 to Bucket Elevator	PM	0.25	0.97
		PM_{10}	0.21	0.83
		$PM_{2.5}$	0.06	0.24
S-D-48	East Cement Silos Reclaim Belt 530306 to Bucket Elevator	PM	0.25	0.97
		PM_{10}	0.21	0.83
		$PM_{2.5}$	0.06	0.24
S-E-27	Rail Loading Silo #1	PM	0.33	1.30
		PM_{10}	0.28	1.10
		$PM_{2.5}$	0.08	0.32
S-E-28	Rail Loading Silo #2	PM	0.33	1.30
		PM_{10}	0.28	1.10
		$PM_{2.5}$	0.08	0.32
S-E-29	Rail Loading Silo #1 Loadout	PM	0.15	0.58
		PM_{10}	0.13	0.50
		$PM_{2.5}$	0.04	0.15
S-E-30	Rail Loading Silo #2 Loadout	PM	0.15	0.58
		PM_{10}	0.13	0.50
		$PM_{2.5}$	0.04	0.15
S-E-33	Discharge to South End Truck Loading Bins	PM	0.28	1.11
		PM_{10}	0.24	0.94
		$PM_{2.5}$	0.07	0.28
S-E-8	Discharge to North End Truck Loadout Bins	PM	0.12	0.49
		PM_{10}	0.10	0.41
		$PM_{2.5}$	0.03	0.12
S-E-34	South End Truck Loading Bins Loadout	PM	0.11	0.42
		PM_{10}	0.09	0.36
		$PM_{2.5}$	0.03	0.10
S-E-1	North End Truck Loadout Spout and Transport System	PM	0.39	1.55
		PM_{10}	0.34	1.32
		$PM_{2.5}$	0.10	0.39
S-E-9	Discharge to North End Truck Loadout Bins	PM	0.16	0.64
		PM_{10}	0.14	0.54
		$PM_{2.5}$	0.04	0.16
S-E-4	No. 1 Packing Machine	PM	0.71	2.79
		PM_{10}	0.60	2.37
		$PM_{2.5}$	0.18	0.70
S-E-5	No. 2 Packing Machine	PM	0.71	2.79
		PM_{10}	0.60	2.37
		$PM_{2.5}$	0.18	0.70

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S-E-6	No. 3 Packing Machine	PM	0.71	2.79
		PM_{10}	0.60	2.37
		$PM_{2.5}$	0.18	0.70
S-E-7	No. 4 Packing Machine	PM	0.71	2.79
		PM_{10}	0.60	2.37
		$PM_{2.5}$	0.18	0.70
S-G-25	Carbon Black Silo	PM	0.08	0.31
		PM_{10}	0.07	0.27
		$PM_{2.5}$	0.02	0.08
S-G-26	Coal/Coke Conveying to Screen	PM	0.08	0.32
		PM_{10}	0.07	0.28
		$PM_{2.5}$	0.02	0.08
S-G-27	Coal/Coke Crusher	PM	0.33	1.30
		PM_{10}	0.28	1.10
		$PM_{2.5}$	0.08	0.32
S-G-28	Coal/Coke Screening and Conveying	PM	0.66	2.61
		PM_{10}	0.56	2.22
		$PM_{2.5}$	0.17	0.65
S-G-3	Existing Solid Fuel Silo - Coke (West Silo)	PM	0.21	0.84
		PM_{10}	0.18	0.72
		$PM_{2.5}$	0.05	0.21
S-G-2	Existing Solid Fuel Silo - Coal (East Silo)	PM	0.37	1.46
		PM_{10}	0.31	1.24
		$PM_{2.5}$	0.09	0.36
S-G-31	Coal/Coke Ball Mill	PM	3.37	13.27
		PM_{10}	2.86	11.28
		$PM_{2.5}$	0.84	3.32
S-G-32	Pulverized Coal/Coke Bins	PM	0.18	0.70
		PM_{10}	0.15	0.60
		$PM_{2.5}$	0.04	0.18
East Clinker Silo Emission Sources (10)				
S-C-41	Belt 330630 to East Clinker Silo	PM	1.28	5.06
		PM_{10}	1.09	4.30
		$PM_{2.5}$	0.32	1.26
S-C-43	East Clinker Storage Silo Reclaim Belt 330670 to Elevator 330690	PM	0.27	1.07
		PM_{10}	0.23	0.91
		$PM_{2.5}$	0.07	0.27
S-C-45	Clinker Elevators 330690/330740 to Belts 330790/330770	PM	0.57	2.25
		PM_{10}	0.48	1.91
		$PM_{2.5}$	0.14	0.56
West Clinker Silo Emission Sources (10)				
S-C-42	Belt 330640 to West Clinker Silo	PM	1.28	5.06
		PM_{10}	1.09	4.30
		$PM_{2.5}$	0.32	1.26
S-C-44	West Clinker Storage Silo Reclaim Belt 330720 to Elevator 330740	PM	0.27	1.07
		PM_{10}	0.23	0.91
		$PM_{2.5}$	0.07	0.27
S-C-45	See East Clinker Silo Emission Sources (above)			
South Clinker Silo Emission Sources (10)				
S-C-71	Belt 330630 to South Clinker Silo Belt	PM	0.14	0.56
		PM_{10}	0.12	0.48

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.04	0.14
S-C-72	South Clinker Silo	PM	0.52	2.06
		PM_{10}	0.44	1.75
		$PM_{2.5}$	0.13	0.52
S-C-73	South Clinker Silo Reclaim Belt and Elevator to Belts 330790/330770	PM	0.24	0.94
		PM_{10}	0.20	0.80
		$PM_{2.5}$	0.06	0.23
Transition Clinker Silo Emission Sources (10)				
S-C-39	Transition Clinker Silo Reclaim Belt and Upset Bin Reclaim Belt to Elevator 330840 to Belts 330790/330770	PM	0.43	1.69
		PM_{10}	0.36	1.43
		$PM_{2.5}$	0.11	0.42
S-C-68	Clinker Transfer to Transition Clinker Silo Elevator; Discharge from Transition Silo to Reclaim Belt or Truck	PM	0.38	1.50
		PM_{10}	0.32	1.27
		$PM_{2.5}$	0.10	0.37
S-C-69	Transfer from Transition Clinker Silo Elevator to Transition Clinker Silo	PM	0.38	1.50
		PM_{10}	0.32	1.27
		$PM_{2.5}$	0.10	0.37
F-C-70 (9)	Hauling of Clinker from Transition Silo to Craneway/Clinker Pile	PM	0.07	0.25
		PM_{10}	0.01	0.05
		$PM_{2.5}$	<0.01	0.01
Fugitive Emissions from Material Drops (9)				
F-A-8	Quarry Loader Drop to Truck	PM	8.21	29.96
		PM_{10}	3.88	14.17
		$PM_{2.5}$	1.22	4.45
F-A-25	Limestone Truck Dump to Hopper	PM	5.75	20.98
		PM_{10}	2.72	9.92
		$PM_{2.5}$	0.85	3.12
F-A-33	Raw Material Truck Dump to Additive Hopper	PM	0.62	2.25
		PM_{10}	0.29	1.07
		$PM_{2.5}$	0.09	0.33
F-A-34	Clay and Additives Transfer from Hopper to Belt Conveyor 213020	PM	0.88	3.22
		PM_{10}	0.42	1.52
		$PM_{2.5}$	0.13	0.48
F-B-30	Transfer to Reject Bin	PM	<0.01	0.02
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
F-B-31	Reject Bin Loadout to Truck	PM	<0.01	0.02
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
F-C-53	Gypsum/Anhydrite Transfer to Bins	PM	0.09	0.35
		PM_{10}	0.04	0.16
		$PM_{2.5}$	0.01	0.05
F-C-54	Limestone Transfer to Bins	PM	0.13	0.47
		PM_{10}	0.06	0.22
		$PM_{2.5}$	0.02	0.07
F-C-56	Off-Spec Clinker Transfer to Bins	PM	0.03	0.12
		PM_{10}	0.02	0.06
		$PM_{2.5}$	<0.01	0.02
F-G-36	Dump to Alternate Fuel Hopper	PM	0.53	1.95

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.25	0.92
		$PM_{2.5}$	0.08	0.29
F-G-37	Hopper to Conveyor/Weighfeeder	PM	0.53	1.95
		PM_{10}	0.25	0.92
		$PM_{2.5}$	0.08	0.29
F-G-7	Rail Car Drop to Coal System Hopper	PM	0.05	0.18
		PM_{10}	0.02	0.09
		$PM_{2.5}$	0.01	0.03
F-G-8	Rail Car Feeder Drop to Coal Belt	PM	0.02	0.09
		PM_{10}	0.01	0.04
		$PM_{2.5}$	<0.01	0.01
F-G-23	Coal Silos Feeders Drop to Belt	PM	0.02	0.09
		PM_{10}	0.01	0.04
		$PM_{2.5}$	<0.01	0.01
F-G-21	Coal Loader Drop to Belt	PM	0.01	0.05
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	0.01
F-G-24	Coal Hopper Drop to Belt	PM	0.01	0.02
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
F-G-20	Coal Return Belt Transfer Drop	PM	0.02	0.09
		PM_{10}	0.01	0.04
		$PM_{2.5}$	<0.01	0.01
F-G-29	Coal/Coke Conveyor 355250 to 355310	PM	0.05	0.18
		PM_{10}	0.02	0.09
		$PM_{2.5}$	0.01	0.03
F-G-30	Coal/Coke Conveyor 355310 to Ball Mill	PM	0.05	0.18
		PM_{10}	0.02	0.09
		$PM_{2.5}$	0.01	0.03
Fugitive Emissions From Outdoor Storage Piles (wind erosion and drops to piles) (9)				
F-B-33	Reject Materials Landfill Pile	PM	0.33	1.20
		PM_{10}	0.17	0.60
		$PM_{2.5}$	0.07	0.24
F-A-14	Gypsum/Anhydrite Pile	PM	0.06	0.22
		PM_{10}	0.03	0.11
		$PM_{2.5}$	0.01	0.04
F-A-15	Limestone Pile	PM	0.06	0.22
		PM_{10}	0.03	0.11
		$PM_{2.5}$	0.01	0.04
F-C-55	Off-Spec Clinker Pile	PM	0.03	0.12
		PM_{10}	0.02	0.06
		$PM_{2.5}$	0.01	0.02
F-G-33	Alternate Fuel Storage Building	PM	0.06	0.21
		PM_{10}	0.03	0.11
		$PM_{2.5}$	0.01	0.04
F-G-35	Day Storage Alternate Fuel Pile	PM	0.01	0.04
		PM_{10}	0.01	0.02
		$PM_{2.5}$	<0.01	0.01
F-A-12	Coal Storage Pile	PM	0.02	0.09
		PM_{10}	0.01	0.05
		$PM_{2.5}$	<0.01	0.02

Emission Sources - Maximum Allowable Emission Rates

F-A-13	Coke Storage Pile	PM	0.02	0.09
		PM_{10}	0.01	0.05
		$PM_{2.5}$	<0.01	0.02
Fugitive Emissions from Roadways (9)				
F-A-3	Quarry Loader Road Emissions	PM	1.26	4.59
		PM_{10}	0.36	1.31
		$PM_{2.5}$	0.05	0.20
F-M-1	Quarry Trucks Road Emissions	PM	15.22	55.55
		PM_{10}	4.33	15.80
		$PM_{2.5}$	0.66	2.42
F-A-23	Raw Material Deliveries Road Emissions	PM	3.16	11.52
		PM_{10}	0.62	2.25
		$PM_{2.5}$	0.15	0.56
F-B-32	Reject Material Road Emissions	PM	0.03	0.10
		PM_{10}	0.01	0.03
		$PM_{2.5}$	<0.01	<0.01
F-C-38	Ammonia Delivery – Road Emissions	PM	<0.01	0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
F-C-51	Limestone Additive – Road Emissions	PM	0.94	3.45
		PM_{10}	0.27	0.98
		$PM_{2.5}$	0.04	0.15
F-C-52	FM Additives Deliveries – Road Emissions	PM	0.35	1.28
		PM_{10}	0.07	0.25
		$PM_{2.5}$	0.02	0.06
F-C-67	Calcium Hydroxide – Road Emissions	PM	<0.01	0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
F-A-24	Fuel Deliveries – Road Emissions	PM	0.85	3.10
		PM_{10}	0.17	0.60
		$PM_{2.5}$	0.04	0.15
F-E-26	Product Trucks - Road Emissions	PM	5.33	19.47
		PM_{10}	1.04	3.80
		$PM_{2.5}$	0.26	0.95
F-G-34	Alternate Fuel to Day Storage – Road Emissions	PM	0.20	0.75
		PM_{10}	0.04	0.15
		$PM_{2.5}$	0.01	0.04
Fugitive Emissions from Quarry Blasting (9)				
F-A-1	Blasting Hole Drilling	PM	0.04	0.15
		PM_{10}	0.02	0.07
		$PM_{2.5}$	0.01	0.02
F-A-10	Blasting	PM	0.31	1.12
		PM_{10}	0.16	0.58
		$PM_{2.5}$	0.01	0.03
Emissions from Fuel Tanks and Fueling				
L-47	Gasoline Tank	VOC	0.24	0.94
L-48	Main Diesel Tank	VOC	<0.01	<0.01
L-49	Quarry Diesel Tank	VOC	<0.01	<0.01
L-50	Gasoline Fueling	VOC	<0.01	<0.01
L-51	Diesel Fueling (Main)	VOC	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

L-52	Diesel Fueling (Quarry)	VOC	<0.01	<0.01

(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) NO_x - total oxides of nitrogen, collectively expressed (calculated) as nitrogen dioxide
CO - carbon monoxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code (30 TAC) § 101.1
SO_2 - sulfur dioxide
H_2SO_4 - sulfuric acid
PM - particulate matter emissions, as defined in 30 TAC § 101.1, including PM_{10} and $PM_{2.5}$
PM_{10} - particulate matter emissions equal to or less than 10 microns in diameter, including $PM_{2.5}$
$PM_{2.5}$ - direct particulate matter emissions equal to or less than 2.5 microns in diameter, including H_2SO_4
HCl - hydrogen chloride
Hg - mercury

(4) Compliance with all annual emission limits (tons per year) is based on a 12-month rolling period.
(5) Compliance with the lb/hr emission rates for NO_x, CO, and Hg is based on a 30-day rolling average.
(6) Compliance with the lb/hr emission rate for SO_2 is based on a 3-hour rolling average.
(7) Compliance with the lb/hr emission rate for pollutants not continuously monitored and for filterable PM (monitored with a continuous parameter monitoring system) is based on the average of three one-hour test runs.
(8) Compliance with the lb/hr emission rate for HCl is based on a 30-day rolling average if a continuous emissions monitoring system for HCl is used to comply with the Portland Cement MACT.
(9) Emission rate is an estimate and is enforceable through compliance with the applicable special conditions and permit application representations.
(10) Only one of the following four groups: East Clinker Silo Emission Sources (EPNs S-C-41, S-C-43, and S-C-45); West Clinker Silo Emission Sources (EPNs S-C-42, S-C-44, and S-C-45); South Clinker Silo Emission Sources (EPNs S-C-71, S-C-72, and S-C-73); and Transition Clinker Silo Emission Sources (EPNs S-C-39, S-C-68, S-C-69, and F-C-70); is operational at any given time.

Date: July 6, 2017