Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 6758 and PSDTX145M2

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.

The emission limits in this table become effective upon the start of operation of Kiln No. 2, or upon start of operation of the source, whichever is sooner.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (4)	
			lbs/hour	TPY (5)
AL-233-BH15	Kiln No. 2 Baghouse 15	NO_X	232.50	958.13
		CO	310.00	1066.71
		VOC	15.50	51.10
		PM (7)	29.14	63.76
		PM_{10} (7)	28.64	61.59
		$PM_{2.5}$ (7)	13.11	28.69
		SO_2	8.80	36.28
		H_2SO_4	2.78	1.74
		NH_3	34.34	150.42
		HCl (7)	6.30	27.60
		Pb	0.002	0.007
		HF	0.29	1.21
		Hg (7)	0.003	0.01
AL-503-BH62	FM3 Heater	NO_X	1.96	4.41
		CO	1.65	3.71
		VOC	0.11	0.24
		PM	17.36	76.03
		PM_{10}	14.58	63.87
		$PM_{2.5}$	4.34	19.01
		SO_2	0.59	1.32
Q-1	Quarry Limestone Mining Fugitives (6)	PM	5.29	11.94
		PM_{10}	3.97	8.96
		$PM_{2.5}$	0.56	1.25
Q-2	Quarry Limestone	PM	0.58	2.12

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	Mining Pile (6)	PM_{10}	0.29	1.06
		$PM_{2.5}$	0.12	0.42
Q-4	Quarry Loader Drop to Truck (6)	PM	0.65	1.35
		PM_{10}	0.31	0.64
		$PM_{2.5}$	0.05	0.10
Q-6	Outside Shale Stockpile (6)	PM	0.30	1.08
		PM_{10}	0.15	0.54
		$PM_{2.5}$	0.06	0.22
Q-7	Outside Limestone Stockpile (6)	PM	0.59	2.17
		PM_{10}	0.30	1.08
		$PM_{2.5}$	0.12	0.43
Q-9	Limestone Truck Dump to Hopper (6)	PM	0.11	0.41
		PM_{10}	0.05	0.19
		$PM_{2.5}$	<0.01	0.03
Q-10	Loader Drop to Outside Raw Hoppers (6)	PM	0.11	0.41
		PM_{10}	0.05	0.19
		$PM_{2.5}$	<0.01	0.03
Q12	Limestone Screener Pile	PM	0.08	0.36
		PM_{10}	0.04	0.18
		$PM_{2.5}$	0.01	0.03
Q13	Limestone Screener	PM	1.80	0.19
		PM_{10}	1.10	0.11
		$PM_{2.5}$	0.17	0.02
		NO_X	0.09	0.05
		CO	1.08	0.65
		VOC	0.04	0.02
		SO_2	0.27	0.16
		HAPs	0.0036	0.0021
Q14	Limestone Screener to Belts	PM	0.78	0.06
		PM_{10}	0.37	0.03
Project Number: 353999		$PM_{2.5}$	0.06	<0.01
Q15	Limestone Fines Pile	PM	0.04	0.18

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		$PM_{2.5}$	<0.01	0.01
Q16	Drop to Limestone Fines Haul Truck	PM	0.78	0.02
		PM_{10}	0.37	0.01
		$PM_{2.5}$	0.06	<0.01
Q18	Screened Limestone Pile	PM	0.08	0.36
		PM_{10}	0.04	0.18
		$PM_{2.5}$	0.01	0.03
Q19	Drop to Masonry Limestone Haul Truck	PM	0.78	0.06
		PM_{10}	0.37	0.03
		$PM_{2.5}$	0.06	<0.01
B-06	Existing Crusher Baghouse B-6	PM	1.22	4.09
		PM_{10}	1.02	3.44
		$PM_{2.5}$	0.30	1.02
C-07	Belt Drop to Reversible Belt (6)	PM	0.06	0.21
		PM_{10}	0.03	0.10
		$PM_{2.5}$	<0.01	0.02
C-08	Return Belt Drop to Crusher Hopper (6)	PM	0.06	0.21
		PM_{10}	0.03	0.10
		$PM_{2.5}$	<0.01	0.02
D-01	Limestone Storage Building Fugitives (6)	PM	0.12	0.44
		PM_{10}	0.06	0.21
		$PM_{2.5}$	<0.01	0.03
D-04	Belt Drop to Limestone Bin (6)	PM	0.04	0.16
		PM_{10}	0.02	0.08
		$PM_{2.5}$	<0.01	0.01
D-05	Limestone Bin Drop to Mill Belt (6)	PM	0.04	0.16
		PM_{10}	0.02	0.08
		$PM_{2.5}$	<0.01	0.01
D-11	Shale Storage Building Fugitives (6)	PM	0.03	0.09
		PM_{10}	0.01	0.04
		$PM_{2.5}$	<0.01	<0.01
D-14	Belt Drop to Shale Bin	PM	<0.01	0.02

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		$PM_{2.5}$	<0.01	<0.01
D-15	Shale Bin Drop to Mill Belt (6)	PM	<0.01	0.02
		PM_{10}	<0.01	0.01
		$PM_{2.5}$	<0.01	<0.01
D-16	FE Loader Drop to Hopper (6)	PM	0.95	3.47
		PM_{10}	0.45	1.64
		$PM_{2.5}$	0.07	0.25
D-20	Sand/Additive Conveyor Drop to Hopper (6)	PM	0.26	0.93
		PM_{10}	0.12	0.44
		$PM_{2.5}$	0.02	0.07
E-01	Raw By-Pass Drop to Shed (6)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
E-03	Belt Drop to Raw Mill Bin (6)	PM	0.01	0.06
		PM_{10}	0.01	0.03
		$PM_{2.5}$	<0.01	<0.01
M-21	Gypsum Weighfeeder to Belt #1 (6)	PM	0.09	0.07
		PM_{10}	0.04	0.03
		$PM_{2.5}$	0.01	0.01
M-23	Gypsum Dragchain to Belt #2 (6)	PM	0.09	0.07
		PM_{10}	0.04	0.03
		$PM_{2.5}$	0.01	0.01
M-24	Limestone Weighfeeders, Belt #1 (6)	PM	0.09	0.07
		PM_{10}	0.04	0.03
		$PM_{2.5}$	0.01	0.01
M-25	Limestone Weighfeeders, Belt #2 (6)	PM	0.09	0.07
		PM_{10}	0.04	0.03
		$PM_{2.5}$	0.01	0.01
S-07	Belt Drop to Coal Shuttle Belt (6)	PM	0.01	0.04
		PM_{10}	<0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
S-08	Coal/Coke Storage	PM	0.01	0.04

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		$PM_{2.5}$	<0.01	<0.01
S-11	Drop to Impact Belt, East Pile (6)	PM	0.03	0.12
		PM_{10}	0.02	0.06
		$PM_{2.5}$	<0.01	<0.01
S-13	Drop to Impact Belt, West Pile (6)	PM	0.03	0.12
		PM_{10}	0.02	0.06
		$PM_{2.5}$	<0.01	<0.01
S-18	Impact Belt Drop to Mill Belt (6)	PM	0.01	0.04
		PM_{10}	<0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
S-20	Mill Belt Drop to Feeder Bin (6)	PM	0.01	0.04
		PM_{10}	<0.01	0.02
		$PM_{2.5}$	<0.01	<0.01
D-99	Sand Storage Pile (6)	PM	0.86	3.13
		PM_{10}	0.43	1.57
		$PM_{2.5}$	0.17	0.63
M-98	Additives Storage Pile (6)	PM	0.20	0.72
		PM_{10}	0.10	0.36
		$PM_{2.5}$	0.04	0.14
D-98	Sand/Iron Storage Pile Drop/Pick-up (6)	PM	0.13	0.47
		PM_{10}	0.06	0.22
		$PM_{2.5}$	0.01	0.03
D36	Bottom Ash Bin Baghouse	PM	0.72	3.14
		PM_{10}	0.60	2.64
		$PM_{2.5}$	0.18	0.79
D-28	Additives Elevator Baghouse	PM	0.67	2.93
		PM_{10}	0.56	2.46
		$PM_{2.5}$	0.17	0.73
AL-201-BH2 Project Number: 353999	Chalk Storage Feed Conveyor BH 2	PM	0.09	0.41
		PM_{10}	0.08	0.35
		$PM_{2.5}$	0.02	0.10
AL-201-BH3	New Chalk Storage	PM	0.16	0.70

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		$PM_{2.5}$	0.04	0.17
AL-201-BH4	R-Sand Inlet Conveyor Storage Bin BH4	PM	0.16	0.68
		PM_{10}	0.13	0.57
		$PM_{2.5}$	0.04	0.17
AL-201-BH5	Chalk Storage Dome Conveyor BH5	PM	0.16	0.71
		PM_{10}	0.14	0.60
		$PM_{2.5}$	0.04	0.18
AL-201-BH6	Chalk Storage Dome Conveyor BH6	PM	0.16	0.71
		PM_{10}	0.14	0.60
		$PM_{2.5}$	0.04	0.18
AL-201-BH7	Chalk Storage 2nd Conveyor Drop BH7	PM	0.16	0.71
		PM_{10}	0.14	0.60
		$PM_{2.5}$	0.04	0.18
AL-201-BH8	Bottom Ash Storage Bin Drop BH8	PM	0.17	0.74
		PM_{10}	0.14	0.62
		$PM_{2.5}$	0.04	0.19
AL-201-BH9	Additive Drop Conveyor BH9	PM	0.17	0.74
		PM_{10}	0.14	0.62
		$PM_{2.5}$	0.04	0.19
AL-233-BH14	Raw Mill System No. 2 BH14	PM	0.27	1.16
		PM_{10}	0.22	0.98
		$PM_{2.5}$	0.07	0.29
AL-233-MF-6000	Reject Bin Drop to Front Loader (6)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
AL-233-BH11	1st RM 3 Feed Conveyor Drop BH11	PM	0.17	0.74
		PM_{10}	0.14	0.62
		$PM_{2.5}$	0.04	0.19
AL-241-BH25	Blending & Raw Mix Storage BH25	PM	0.12	0.54
		PM_{10}	0.10	0.45
		$PM_{2.5}$	0.03	0.13
AL-241-BH26	Blending & Raw Mix	PM	0.12	0.54

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		$PM_{2.5}$	0.03	0.13
AL-241-BH27	Blending & Raw Mix Storage BH27	PM	0.12	0.54
		PM_{10}	0.10	0.45
		$PM_{2.5}$	0.03	0.13
AL-241-BH28	Blending & Raw Mix Storage BH28	PM	0.12	0.54
		PM_{10}	0.10	0.45
		$PM_{2.5}$	0.03	0.13
AL-241-BH29	Blending & Raw Mix Storage BH29	PM	0.12	0.54
		PM_{10}	0.10	0.45
		$PM_{2.5}$	0.03	0.13
AL-241-BH30	Blending & Raw Mix Storage BH30	PM	0.12	0.54
		PM_{10}	0.10	0.45
		$PM_{2.5}$	0.03	0.13
AL-302-BH20	Kiln No. 2 Feed System BH20	PM	0.22	0.98
		PM_{10}	0.19	0.82
		$PM_{2.5}$	0.06	0.25
AL-302-BH21	Kiln No. 2 Feed System BH21	PM	0.14	0.63
		PM_{10}	0.12	0.53
		$PM_{2.5}$	0.04	0.16
AL-302-BH22	Kiln No. 2 Feed System BH22	PM	0.12	0.54
		PM_{10}	0.10	0.45
		$PM_{2.5}$	0.03	0.13
AL-302-BH23	Kiln No. 2 Feed System BH23	PM	0.12	0.54
		PM_{10}	0.10	0.45
		$PM_{2.5}$	0.03	0.13
AL-330-BH35	Clinker Conveying & Storage BH35	PM	0.14	0.62
		PM_{10}	0.12	0.52
		$PM_{2.5}$	0.04	0.15
AL-330-BH36	Clinker Conveying & Storage BH36	PM	0.14	0.62
		PM_{10}	0.12	0.52
		$PM_{2.5}$	0.04	0.15
AL-330-BH37	Clinker Conveying &	PM	0.08	0.36

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		$PM_{2.5}$	0.02	0.09
AL-330-BH38	Clinker Conveying & Storage BH38	PM	0.41	1.81
		PM_{10}	0.35	1.52
		$PM_{2.5}$	0.10	0.45
CLS	Clinker Storage Pile (6)	PM	0.10	0.36
		PM_{10}	0.05	0.18
		$PM_{2.5}$	0.02	0.07
CCS	Coal/Coke Stockpiles (6)	PM	0.46	1.66
		PM_{10}	0.23	0.83
		$PM_{2.5}$	0.09	0.33
AL-330-BH40	Clinker Conveying & Storage BH40	PM	0.09	0.38
		PM_{10}	0.07	0.32
		$PM_{2.5}$	0.02	0.10
AL-330-BH41	Clinker Conveying & Storage BH41	PM	0.14	0.62
		PM_{10}	0.12	0.52
		$PM_{2.5}$	0.04	0.15
AL-330-BH42	Clinker Conveying & Storage BH42	PM	0.14	0.62
		PM_{10}	0.12	0.52
		$PM_{2.5}$	0.04	0.15
AL-330-BH43	Clinker Conveying & Storage BH43	PM	0.15	0.65
		PM_{10}	0.12	0.55
		$PM_{2.5}$	0.04	0.16
AL-330-BH44	Clinker Conveying & Storage BH44	PM	0.18	0.77
		PM_{10}	0.15	0.65
		$PM_{2.5}$	0.04	0.19
AL-330-BH45	Clinker Conveying & Storage BH45	PM	0.17	0.74
		PM_{10}	0.14	0.62
		$PM_{2.5}$	0.04	0.18
AL-330-BH46	Clinker Conveying & Storage BH46	PM	0.17	0.74
		PM_{10}	0.14	0.62
		$PM_{2.5}$	0.04	0.18
AL-330-BH47	Clinker Conveying &	PM	0.17	0.74

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		$PM_{2.5}$	0.04	0.18
AL-330-BH48	Clinker Conveying & Storage BH48	PM	0.17	0.74
		PM_{10}	0.14	0.62
		$PM_{2.5}$	0.04	0.18
AL-330-BH49	Clinker Conveying & Storage BH49	PM	0.17	0.74
		PM_{10}	0.14	0.62
		$PM_{2.5}$	0.04	0.18
AL-530-BH64	Cement Silos 1st Inlet Conveyor BH64	PM	0.15	0.65
		PM_{10}	0.12	0.55
		$PM_{2.5}$	0.04	0.16
AL-330-BH51	Clinker Conveying & Storage BH51	PM	0.15	0.65
		PM_{10}	0.12	0.55
		$PM_{2.5}$	0.04	0.16
AL-330-BH52	Clinker Conveying & Storage BH52	PM	0.17	0.74
		PM_{10}	0.14	0.62
		$PM_{2.5}$	0.04	0.18
M-01	Loader Drop to Additive Hopper (6)	PM	0.83	3.03
		PM_{10}	0.39	1.43
		$PM_{2.5}$	0.06	0.22
M-02	Additive Belt Baghouse M-02	PM	0.19	0.85
		PM_{10}	0.16	0.71
		$PM_{2.5}$	0.05	0.21
M-04	Additive Belt Baghouse M-04	PM	0.12	0.51
		PM_{10}	0.10	0.43
		$PM_{2.5}$	0.03	0.13
M-06	Reversible Belt/Gyp Bin Baghouse M-06	PM	0.19	0.85
		PM_{10}	0.16	0.71
		$PM_{2.5}$	0.05	0.21
M-09	Clinker/Limestone Bins Baghouse M-09	PM	0.23	1.03
		PM_{10}	0.20	0.86
		$PM_{2.5}$	0.06	0.26
M-10	Special Clinker Bin	PM	0.16	0.70

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		$PM_{2.5}$	0.04	0.18
AL-503-BH60	Finish Mill #3 Grinding BH60	PM	0.15	0.65
		PM_{10}	0.12	0.55
		$PM_{2.5}$	0.04	0.16
AL-503-BH61	Finish Mill #3 Grinding BH61	PM	0.15	0.65
		PM_{10}	0.12	0.55
		$PM_{2.5}$	0.04	0.16
AL-503-BH63	Finish Mill #3 Grinding BH63	PM	0.13	0.56
		PM_{10}	0.11	0.47
		$PM_{2.5}$	0.03	0.14
AL-530-BH65	Cement Silos BH65	PM	0.13	0.56
		PM_{10}	0.11	0.47
		$PM_{2.5}$	0.03	0.14
AL-530-BH66	Cement Silos BH66	PM	0.15	0.65
		PM_{10}	0.12	0.55
		$PM_{2.5}$	0.04	0.16
AL-530-BH67	Cement Silos BH67	PM	0.15	0.65
		PM_{10}	0.12	0.55
		$PM_{2.5}$	0.04	0.16
R-08	Silo #1 Loadout Baghouse	PM	0.11	0.49
		PM_{10}	0.09	0.41
		$PM_{2.5}$	0.03	0.12
R-18	Silo #2 Loadout Baghouse	PM	0.11	0.49
		PM_{10}	0.09	0.41
		$PM_{2.5}$	0.03	0.12
R-28	Silo #3 Loadout Baghouse	PM	0.11	0.49
		PM_{10}	0.09	0.41
		$PM_{2.5}$	0.03	0.12
R-38	Silo #8 through #11 Loadout Baghouse	PM	0.11	0.49
		PM_{10}	0.09	0.41
		$PM_{2.5}$	0.03	0.12
R-48	Silo #4 through #7	PM	0.11	0.49

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		$PM_{2.5}$	0.03	0.12
R-58	Silo #12 through #15 Loadout Baghouse	PM	0.11	0.49
		PM_{10}	0.09	0.41
		$PM_{2.5}$	0.03	0.12
AL-530-6000-BH68	New Silo #16 Loadout BH68	PM	0.15	0.65
		PM_{10}	0.12	0.55
		$PM_{2.5}$	0.04	0.16
AL-530-6000-BH69	New Silo #17 Loadout BH69	PM	0.15	0.65
		PM_{10}	0.12	0.55
		$PM_{2.5}$	0.04	0.16
AL-530-6000-BH70	Cement Silo #18 Inlet Drop BH70	PM	0.15	0.65
		PM_{10}	0.12	0.55
		$PM_{2.5}$	0.04	0.16
AL-530-6000-BH71	Cement Silo #19 Inlet Drop BH71	PM	0.15	0.65
		PM_{10}	0.12	0.55
		$PM_{2.5}$	0.04	0.16
AL-530-6000-BH72	Cement Silo #18 Loadout BH72	PM	0.15	0.65
		PM_{10}	0.12	0.55
		$PM_{2.5}$	0.04	0.16
AL-530-6000-BH73	Cement Silo #19 Loadout BH73	PM	0.15	0.65
		PM_{10}	0.12	0.55
		$PM_{2.5}$	0.04	0.16
S-44	Coal/Coke Unloading Baghouse	PM	0.47	2.07
		PM_{10}	0.40	1.74
		$PM_{2.5}$	0.12	0.52
S-98	Coal/Coke Drop to Hopper (6)	PM	0.02	0.07
		PM_{10}	<0.01	0.04
		$PM_{2.5}$	<0.01	<0.01
S-56	Coal Bin Baghouse	PM	0.44	1.93
		PM_{10}	0.37	1.62
		$PM_{2.5}$	0.11	0.48
S-30	Coal Mill Baghouse	PM	1.57	6.89

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		$PM_{2.5}$	0.39	1.72
AL-354-BH55	Coal Mill System BH55	PM	2.14	9.35
		PM_{10}	1.79	7.86
		$PM_{2.5}$	0.53	2.34
L-13	Hot Clinker Baghouse	PM	0.27	1.17
		PM_{10}	0.22	0.98
		$PM_{2.5}$	0.07	0.29
L-14	Dome 1 Baghouse	PM	0.28	1.23
		PM_{10}	0.24	1.03
		$PM_{2.5}$	0.07	0.31
L-15	Dome 1 Bottom Baghouse Stack	PM	0.21	0.94
		PM_{10}	0.18	0.79
		$PM_{2.5}$	0.05	0.23
L-16	Truck Loadout Silo Baghouse	PM	0.64	2.81
		PM_{10}	0.54	2.36
		$PM_{2.5}$	0.16	0.70
L-18	Clinker Dome 2 Bottom Baghouse Stack	PM	0.13	0.56
		PM_{10}	0.11	0.47
		$PM_{2.5}$	0.03	0.14
L-19	Dome 2 Baghouse	PM	0.07	0.33
		PM_{10}	0.06	0.28
		$PM_{2.5}$	0.02	0.08
S54	Solid Fuel Mill Pumps Baghouse	PM	0.06	0.25
		PM_{10}	0.05	0.21
		$PM_{2.5}$	0.01	0.06
MSS-KL2	Kiln Line No. 2 MSS Emissions (6)	NO_X	1.28	0.19
		CO	2.69	0.21
		VOC	2.35	0.01
		PM	11.37	1.37
		PM_{10}	8.85	1.18
		$PM_{2.5}$	4.64	0.54
		SO_2	0.01	0.01

Emission Sources - Maximum Allowable Emission Rates

NH3TK-1	Ammonia Storage Tank No. 1 (6)	NH_3	5.33	0.11
NH3TK-2	Ammonia Storage Tank No. 2 (6)	NH_3	5.33	0.11
K-2/K-19	Existing Kiln No. 1	PM (7)	36.33	152.59
		PM_{10} (7)	36.33	152.59
		$PM_{2.5}$ (7)	16.35	68.67
		NO_X	550.00	1567.61
		SO_2	20.00	84.00
		VOC	15.00	63.00
		CO	460.00	1932.00
		HCl	2.00	8.76
		H_2SO_4	2.00	8.40
F-11	Blending Silo Baghouse	PM	0.82	3.46
		PM_{10}	0.69	2.90
		$PM_{2.5}$	0.21	0.87
F-12	Return Elevator Baghouse	PM	0.21	0.86
		PM_{10}	0.17	0.73
		$PM_{2.5}$	0.05	0.22
H-06	Aeropol Feed Baghouse	PM	0.14	0.58
		PM_{10}	0.12	0.48
		$PM_{2.5}$	0.03	0.14
H-07	Elevator Baghouse	PM	0.16	0.69
		PM_{10}	0.14	0.58
		$PM_{2.5}$	0.04	0.17
L-12	Clinker Elevator Baghouse	PM	0.36	1.53
		PM_{10}	0.31	1.28
		$PM_{2.5}$	0.09	0.38
M-28	Clinker Feeder Belt Baghouse Stack	PM	0.33	1.40
		PM_{10}	0.33	1.40
		$PM_{2.5}$	0.08	0.35
M-29	Clinker Feeder Belt Baghouse Stack	PM	0.25	1.04
		PM_{10}	0.25	1.04

Emission Sources - Maximum Allowable Emission Rates

M-32	Special Clinker Feeder Belt Baghouse	PM	0.25	1.04
		PM_{10}	0.25	1.04
		$PM_{2.5}$	0.06	0.26
M-33	Special Clinker Feeder Belt Baghouse	PM	0.25	1.04
		PM_{10}	0.25	1.04
		$PM_{2.5}$	0.06	0.26
N-09	FM No. 1 Elevator Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
		$PM_{2.5}$	0.04	0.16
N-13	FM No. 1 Separator Baghouse Stack	PM	2.02	8.46
		PM_{10}	1.01	4.23
		$PM_{2.5}$	0.50	2.12
N-20	Fly Ash Bins Baghouse Stack	PM	0.14	0.58
		PM_{10}	0.12	0.48
		$PM_{2.5}$	0.03	0.14
N-22	FM No. 1 Airslides Baghouse Stack	PM	0.58	2.42
		PM_{10}	0.29	1.21
		$PM_{2.5}$	0.14	0.60
N-59	FM No. 2 Elevator Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
		$PM_{2.5}$	0.04	0.16
N-63	FM No. 2 Separator Baghouse Stack	PM	2.02	8.46
		PM_{10}	1.01	4.23
		$PM_{2.5}$	0.50	2.12
N-69	FM No. 2 Airslides Baghouse Stack	PM	0.58	2.42
		PM_{10}	0.29	1.21
		$PM_{2.5}$	0.14	0.60
N-94a	FM No. 1 Belt Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
		$PM_{2.5}$	0.04	0.16
N-94b	FM No. 1 Belt Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63

Emission Sources - Maximum Allowable Emission Rates

N-95	FM No. 2 Belt Baghouse Stack	PM	0.25	1.04
		PM_{10}	0.25	1.04
		$PM_{2.5}$	0.06	0.26
N-96	Silo #12 through #15 Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
		$PM_{2.5}$	0.04	0.16
N-97	Silo #4 through #7 Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
		$PM_{2.5}$	0.04	0.16
N-98	Silo #2 Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
		$PM_{2.5}$	0.04	0.16
N-99	Silo #1 Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
		$PM_{2.5}$	0.04	0.16
N-100	Silo #3 Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
		$PM_{2.5}$	0.04	0.16
N-101	Silo #8 through #11 Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
		$PM_{2.5}$	0.04	0.16
R-70	Rotary Bagging Elevator Baghouse Stack	PM	1.01	4.23
		PM_{10}	0.85	3.56
		$PM_{2.5}$	0.25	1.06
R-90	Manned Bagger Elevator Baghouse Stack	PM	1.01	4.23
		PM_{10}	0.85	3.56
		$PM_{2.5}$	0.25	1.06
MSSFUG1 Project Number: 353999	Inherently Low Emitting (ILE) Planned Maintenance Activities (6)	NO_X	<0.01	<0.01
		PM	0.77	0.64
		PM_{10}	0.55	0.63
		$PM_{2.5}$	0.24	0.31
		VOC	2.35	<0.01

Emission Sources - Maximum Allowable Emission Rates

MSSFUG2	Non-ILE Planned Maintenance Activities (6)	NO_X	1.27	0.18
		CO	2.69	0.21
		PM	10.60	0.73
		PM_{10}	8.30	0.55
		$PM_{2.5}$	4.40	0.23

(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
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
Pb - lead
HCl - hydrogen chloride
HF - hydrogen fluoride
Hg - mercury
(4) Planned maintenance, startup, and shutdown (MSS) emissions are included.
(5) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(6) Emission rate is an estimate and an enforceable limit. Fugitive emission compliance will be demonstrated through compliance with the applicable special condition(s) and permit application representations.
(7) Compliance is based on a 30 operating day rolling average excluding periods of startup / shutdown (SU/SD) as defined in 40 CFR §63.1341.

Date: March 29, 2023

Emission Sources - Maximum Allowable Emission Rates

Permit Number GHGPSDTX143

This table lists the maximum allowable emission rates of greenhouse gas (GHG) emissions, as defined in Title 30 Texas Administrative Code § 101.1, for all sources of GHG air contaminants on the applicant's property that are authorized 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 authorized by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates
			TPY (4)
AL-233-BH15	Kiln No. 2 Baghouse 15	CH_4 (5)	64
		N_2O (5)	9
		CO_2 (5)	1,213,625
		CO_2e	1,218,008
AL-503-BH62	FM3 Heater / Grinding BH 62	CH_4 (5)	<1
		N_2O (5)	<1
		CO_2 (5)	5,294
		CO_2e	5,305
K-2/K-19	Kiln No. 1	CH_4 (5)	50
		N_2O (5)	7
		CO_2 (5)	937,470
		CO_2e	940,856
MSS-KL2	Kiln Line No. 2 MSS Emissions	CO_2 (5)	14
		CO_2e	14

(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) CO_2 - carbon dioxide
N_2O - nitrous oxide
CH_4 - methane
CO_2e - carbon dioxide equivalents based on the following Global Warming Potentials (1/2015):
CO_2 (1), N_2O (298), CH_4 (25), SF_6 (22,800), HFC (various), PFC (various)
(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. These rates include emissions from maintenance, startup, and shutdown.
(5) Emission rate is given for informational purposes only and does not constitute enforceable limit.

Date: June 13, 2017

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 6758 and PSDTX145M1

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.

The emission limits in this table remain in effect until the start of operation of Kiln No. 2.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (11)	
			lb/hour	TPY (4)
Clinker Production				
Q-1 Group (5)	Quarrying (6)	PM	14.61	13.49
		PM_{10}	8.64	9.59
B-06	Crushing Operation Baghouse Stack	PM	0.60	2.52
		PM_{10}	0.60	2.52
RMS Group (7)	Transport to Raw Material Storage Bins/RMS (6)	PM	5.58	4.62
		PM_{10}	1.33	1.21
D-28	Additives Elevator Baghouse	PM	0.94	3.96
		PM_{10}	0.94	3.96
K-19	Grinding/Preheating/Kiln ESP Stack (8)	PM (filterable)	32.24	135.41
		PM_{10} (filterable)	32.24	135.41
		PM (condensable)	4.09	17.19
		PM_{10} (condensable)	4.09	17.19
		PM (total)	36.33	152.59
		PM_{10} (total)	36.33	152.59
		NO_x	660.0	2772.0
		SO_2	20.00	84.0
		VOC	15.00	63.00
		CO	460.00	1932.0
		HCl	2.00	8.76
		H_2SO_4	2.00	8.40
F-11	Blending Silo Baghouse	PM	1.03	4.32
		PM_{10}	1.03	4.32

Emission Sources - Maximum Allowable Emission Rates

F-12	Return Elevator Baghouse	PM	0.26	1.08
		PM_{10}	0.26	1.08
H-06	Aeropol Feed Baghouse	PM	0.17	0.72
		PM_{10}	0.17	0.72
H-07	Elevator Baghouse	PM	0.21	0.86
		PM_{10}	0.21	0.86
L-12	Clinker Elevator Baghouse Stack	PM	0.45	1.91
		PM_{10}	0.45	1.91
L-13	Hot Clinker Baghouse Stack	PM	0.43	1.80
		PM_{10}	0.43	1.80
L-14	Dome I Baghouse Stack	PM	0.45	1.89
		PM_{10}	0.45	1.89
L-15	Dome I Bottom Baghouse Stack	PM	0.32	1.44
		PM_{10}	0.32	1.44
L-16	Truck Loadout Silo Baghouse Stack	PM	1.03	4.32
		PM_{10}	1.03	4.32
L-18	Clinker Dome 2 Bottom Baghouse Stack	PM	0.21	0.86
		PM_{10}	0.21	0.86
L-19	Dome 2 Baghouse Stack	PM	0.12	0.50
		PM_{10}	0.12	0.50
Finish Milling				
M-02	Additive Belt Baghouse Stack	PM	0.25	1.04
		PM_{10}	0.25	1.04
M-04	Additive Belt Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
M-06	Reversible Belt/Gyp Bin Baghouse Stack	PM	0.25	1.04
		PM_{10}	0.25	1.04
M-09	Clinker/Limestone Bins Baghouse Stack	PM	0.30	1.26
		PM_{10}	0.30	1.26
M-10	Special Clinker Bin Baghouse Stack	PM	0.21	0.86
		PM_{10}	0.21	0.86

Emission Sources - Maximum Allowable Emission Rates

M-28	Clinker Feeder Belt Baghouse Stack	PM	0.33	1.40
		PM_{10}	0.33	1.40
M-29	Clinker Feeder Belt Baghouse Stack	PM	0.25	1.04
		PM_{10}	0.25	1.04
M-32	Special Clinker Feeder Belt Baghouse	PM	0.25	1.04
		PM_{10}	0.25	1.04
M-33	Special Clinker Feeder Belt Baghouse	PM	0.25	1.04
		PM_{10}	0.25	1.04
N-09	FM No. 1 Elevator Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
N-13	FM No. 1 Separator Baghouse Stack	PM	2.52	10.58
		PM_{10}	1.26	5.29
N-20	Fly Ash Bins Baghouse Stack	PM	0.17	0.72
		PM_{10}	0.17	0.72
N-22	FM No. 1 Airslides Baghouse Stack	PM	0.72	3.02
		PM_{10}	0.36	1.51
N-59	FM No. 2 Elevator Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
N-63	FM No. 2 Separator Baghouse Stack	PM	2.52	10.58
		PM_{10}	1.26	5.29
N-69	FM No. 2 Airslides Baghouse Stack	PM	0.72	3.02
		PM_{10}	0.36	1.51
N-94a	FM No. 1 Belt Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
N-94b	FM No. 1 Belt Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
N-95	FM No. 2 Belt Baghouse Stack	PM	0.25	1.04
		PM_{10}	0.25	1.04
N-96	Silos 12-15 Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
N-97	Silos 4-7 Baghouse Stack	PM	0.15	0.63

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.15	0.63
N-98	Silo 2 Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
N-99	Silo 1 Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
N-100	Silo 3 Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
N-101	Silos 8-11 Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
Loadout and Bagging Operation				
R-08	Silo 1 Loadout Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
R-18	Silo 2 Loadout Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
R-28	Silo 3 Loadout Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
R-38	Silos 8-11 Loadout Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
R-48	Silos 4-7 Loadout Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
R-58	Silos 12-15 Loadout Baghouse Stack	PM	0.15	0.63
		PM_{10}	0.15	0.63
R-70	Rotary Bagging Elevator Baghouse Stack	PM	1.26	5.29
		PM_{10}	1.26	5.29
R-90	Manned Bagger Elevator Baghouse Stack	PM	1.26	5.29
		PM_{10}	1.26	5.29
F-1 Group (9)	Material Handling (6)	PM	5.78	5.71
		PM_{10}	2.76	2.71
Coal and Coke Operation				
S-01 Group (10)	Coal/Coke Stockpiles (6)	PM	0.60	1.71
		PM_{10}	0.28	0.81

Emission Sources - Maximum Allowable Emission Rates

S-98	Coal and Coke Road Hopper (6)	PM	1.80	7.90
		PM_{10}	0.90	4.00
S-44	Coal and Coke Unloading Baghouse Stack	PM	0.64	2.70
		PM_{10}	0.64	2.70
S-30	Coal Mill Baghouse	PM	2.14	9.00
		PM_{10}	2.14	9.00
S-56	Coal Bin Baghouse	PM	0.60	2.52
		PM_{10}	0.60	2.52
Planned Maintenance Activities				
MSSFUG1	Inherently Low Emitting (ILE) Planned Maintenance Activities (6)	NO_x	<0.01	<0.01
		PM	0.77	0.64
		PM_{10}	0.55	0.63
		$PM_{2.5}$	0.24	0.31
		VOC	2.35	<0.01
MSSFUG2	Non-ILE Planned Maintenance Activities (6)	NO_x	1.27	0.18
		CO	2.69	0.21
		PM	10.60	0.73
		PM_{10}	8.30	0.55
		$PM_{2.5}$	4.40	0.23

(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
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
HCl - hydrogen chloride
H_2SO_4 - sulfuric acid

(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.

(5) The emission limitations for EPN Q-1 GROUP authorize emissions from EPNs Q-01, Q-02, Q-04, Q-05, Q-06, Q-07, Q-09, Q-10, and C-05.

(6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

(7) The emission limitations for EPN RMS GROUP authorize emissions from EPNs M-99, D-99, and M-98.

(8) Emissions from K-19 must comply with New Source Performance Standard, Subpart F.

(9) The emission limitations for EPN F-1 GROUP authorize emissions from EPNs C-07, C-08, D-01, D-04, D-05, D-11, D-14, D-15, D-16, E-01, E-03, M-01, M-21, M-23, M-24, M-25, D-20, S-07, S-08, S-11, S-13, S-18, and S-20.

Emission Sources - Maximum Allowable Emission Rates

(10) The emission limitations for EPN S-01 GROUP authorize emissions from EPNs S-99, CCS, and CLS.
(11) Planned maintenance, startup, and shutdown (MSS) emissions are included.

Date: March 29, 2023