

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 1360A and PSDTX632M1

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 (4)	
			lbs/hour	TPY (5)
E1-7	Raw Material Storage Pile	PM	0.10	0.44
		PM ₁₀	0.05	0.22
		PM _{2.5}	0.01	0.03
E1-11	Raw Material Storage Pile	PM	0.05	0.22
		PM ₁₀	0.02	0.11
		PM _{2.5}	<0.01	0.02
E1-12	Quarry Dozing Operations (6)	PM	4.82	12.93
		PM ₁₀	3.56	9.42
		PM _{2.5}	3.56	9.42
E1-24	Primary Crusher (6)	PM	0.17	0.32
		PM ₁₀	0.08	0.15
		PM _{2.5}	0.01	0.02
E1-25	Transfer Point No. 1 (6)	PM	0.08	0.14
		PM ₁₀	0.04	0.07
		PM _{2.5}	0.01	0.01
E1-26	Transfer Point No. 2 (6)	PM	0.08	0.14
		PM ₁₀	0.04	0.07
		PM _{2.5}	0.01	0.01
E1-27	Secondary Crusher (6)	PM	0.29	0.54
		PM ₁₀	0.13	0.24
		PM _{2.5}	0.02	0.05
E1-28	Overland Conveyor Diverter Drop (6)	PM	0.08	0.14
		PM ₁₀	0.04	0.07
		PM _{2.5}	0.01	0.01
E1-29	Limestone Storage	PM	0.08	0.14

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		PM ₁₀	0.04	0.07
		PM _{2.5}	0.01	0.01
E1-30	Underground Belt Feeder Drop (6)	PM	0.24	1.07
		PM ₁₀	0.24	1.07
		PM _{2.5}	0.04	0.16
E1-31	Raw Bins Baghouse	PM	0.75	3.29
		PM ₁₀	0.75	3.29
		PM _{2.5}	0.11	0.50
E1-31A	Limestone Transfer Baghouse	PM	1.14	4.97
		PM ₁₀	1.14	4.97
		PM _{2.5}	0.17	0.75
E1-32	Sand, Drop to Hopper (6)	PM	0.02	0.02
		PM ₁₀	0.01	0.01
		PM _{2.5}	<0.01	<0.01
E1-32A	Sand Belt Transfer (6)	PM	0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
E1-32B	Iron/Sand Belt Weigh Feeder Drop (6)	PM	0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
E1-33	Overland Conveyor Transfer No. 3 (6)	PM	0.08	0.14
		PM ₁₀	0.04	0.07
		PM _{2.5}	0.01	0.01
E1-34	Overland Conveyor Transfer No. 4 (6)	PM	0.08	0.14
		PM ₁₀	0.04	0.07
		PM _{2.5}	0.01	0.01
E1-35	Raw Material Storage Pile	PM	0.02	0.11
		PM ₁₀	0.01	0.05
		PM _{2.5}	<0.01	0.01

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E1-36	Raw Material Storage Pile	PM	0.02	0.11
		PM ₁₀	0.01	0.05
		PM _{2.5}	<0.01	0.01
E2-7	Blending Silo Baghouse	PM	0.97	4.23
		PM ₁₀	0.97	4.23
		PM _{2.5}	0.15	0.64
E2-7A	Blending Silo Discharge Baghouse	PM	0.59	2.59
		PM ₁₀	0.59	2.59
		PM _{2.5}	0.09	0.39
E2-7B	Preheater Tower Pneumatic Feed Baghouse	PM	0.79	3.47
		PM ₁₀	0.79	3.47
		PM _{2.5}	0.12	0.53
E2-10A	CKD Drop from Truck (6)	PM	<0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
E2-10C	CKD Bin Baghouse	PM	0.32	1.40
		PM ₁₀	0.32	1.40
		PM _{2.5}	0.05	0.21
E2-10D	Kiln Dust to Scrubber Baghouse	PM	0.16	0.69
		PM ₁₀	0.16	0.69
		PM _{2.5}	0.02	0.10
E2-10F	CKD Drop to Truck (6)	PM	<0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
E2-11A	Dust Bin Baghouse	PM	0.48	2.11
		PM ₁₀	0.48	2.11
		PM _{2.5}	0.07	0.32
E2-11B	Lime Silo Baghouse	PM	0.24	1.03
		PM ₁₀	0.24	1.03

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		PM _{2.5}	0.04	0.16
E2-13P	Raw Material Storage Pile	PM	0.37	1.64
		PM ₁₀	0.19	0.82
		PM _{2.5}	0.03	0.12
E2-14A	Loader Drop to Grizzly Screen	PM	0.18	0.09
		PM ₁₀	0.09	0.05
		PM _{2.5}	0.01	0.01
E2-17	Iron Feed System Hopper (6)	PM	0.08	0.06
		PM ₁₀	0.04	0.03
		PM _{2.5}	0.01	<0.01
E2-18P	Raw Material Storage Pile	PM	0.06	0.27
		PM ₁₀	0.03	0.14
		PM _{2.5}	<0.01	0.02
E2-22	Kiln No. 5 Main Stack	NO _x (7)	681.25	2725.00
		SO ₂ (8)	332.25	1329.00
		CO (8)	500.00	1020.10
		PM	69.24	267.77
		PM ₁₀	69.24	267.77
		PM _{2.5}	53.67	225.41
		HCl (7)	27.39	107.97
		H ₂ SO ₄	33.23	103.68
		VOC (7)	19.06	67.10
		TRS (incl. H ₂ S)	2.26	9.90
		Hg (7)	0.13	0.51
		Pb	0.01	0.04
E3-2	No. 3 Tunnel Baghouse	PM	0.19	0.82
		PM ₁₀	0.19	0.82
		PM _{2.5}	0.03	0.12
E3-3	No. 2 Tunnel Baghouse	PM	0.37	1.63

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		PM ₁₀	0.37	1.63
		PM _{2.5}	0.06	0.25
E3-5	No. 1 Tunnel Baghouse	PM	0.15	0.65
		PM ₁₀	0.15	0.65
		PM _{2.5}	0.02	0.10
E3-6	700 Pan Conveyor Baghouse	PM	0.37	1.63
		PM ₁₀	0.37	1.63
		PM _{2.5}	0.06	0.25
E3-10	Additive Silos Conveyor Drop (6)	PM	0.41	1.78
		PM ₁₀	0.41	1.78
		PM _{2.5}	0.06	0.27
E3-11	707 Belt Tail Pulley	PM	0.28	1.22
		PM ₁₀	0.28	1.22
		PM _{2.5}	0.04	0.19
E3-12	Reclaim Belt Baghouse (6)	PM	0.22	0.98
		PM ₁₀	0.22	0.98
		PM _{2.5}	0.03	0.15
E3-14	Fly Ash Silo Baghouse	PM	0.15	0.64
		PM ₁₀	0.15	0.64
		PM _{2.5}	0.02	0.10
E3-15	South Clinker Group No. 4 Baghouse	PM	0.37	1.63
		PM ₁₀	0.37	1.63
		PM _{2.5}	0.06	0.25
E3-16	Finish Mill No. 1 Baghouse Stack	PM	2.16	9.46
		PM ₁₀	2.16	9.46
		PM _{2.5}	0.33	1.43
E3-17	Finish Mill No. 2 Baghouse Stack	PM	2.16	9.46
		PM ₁₀	2.16	9.46
		PM _{2.5}	0.33	1.43

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E3-18	Finish Mill No. 3 Baghouse Stack	PM	2.16	9.46
		PM ₁₀	2.16	9.46
		PM _{2.5}	0.33	1.43
E3-19	Finish Mill No. 4 Baghouse Stack	PM	2.16	9.46
		PM ₁₀	2.16	9.46
		PM _{2.5}	0.33	1.43
E3-20	Finish Mill No. 5 Feed Baghouse	PM	0.19	0.82
		PM ₁₀	0.19	0.82
		PM _{2.5}	0.03	0.12
E3-21	Finish Mill No. 5 Baghouse	PM	0.72	3.16
		PM ₁₀	0.72	3.16
		PM _{2.5}	0.11	0.48
E3-22	780 Head Pulley Baghouse	PM	0.19	0.82
		PM ₁₀	0.19	0.82
		PM _{2.5}	0.03	0.12
E3-23	Lower Reclaim Belt Baghouse	PM	0.22	0.98
		PM ₁₀	0.22	0.98
		PM _{2.5}	0.03	0.15
E3-24	Stacker Belt Sec. 2 Baghouse	PM	0.37	1.63
		PM ₁₀	0.37	1.63
		PM _{2.5}	0.06	0.25
E3-25	FM No. 6 Transfer Tower Baghouse	PM	0.27	1.17
		PM ₁₀	0.27	1.17
		PM _{2.5}	0.04	0.18
E3-25-5	No. 5 Finish Mill Fringe Bin	PM	0.15	0.65
		PM ₁₀	0.15	0.65
		PM _{2.5}	0.02	0.10
E3-31	Finish Tunnel No. 4 Baghouse Stack	PM	0.15	0.65
		PM ₁₀	0.15	0.65

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		PM _{2.5}	0.02	0.10
E3-32	No. 4 Feeder Baghouse Stack	PM	0.15	0.65
		PM ₁₀	0.15	0.65
		PM _{2.5}	0.02	0.10
E3-33	Clinker Barn West Baghouse	PM	0.28	1.22
		PM ₁₀	0.28	1.22
		PM _{2.5}	0.04	0.19
E3-33A	Clinker Outhaul to FM No. 6 Baghouse	PM	0.25	1.11
		PM ₁₀	0.25	1.11
		PM _{2.5}	0.04	0.17
E3-34	Surge Collector Baghouse	PM	0.56	2.45
		PM ₁₀	0.56	2.45
		PM _{2.5}	0.08	0.37
E3-35	Head Pulley 700 Pan Baghouse	PM	0.07	0.33
		PM ₁₀	0.07	0.33
		PM _{2.5}	0.01	0.05
E3-37	Nos. 9-10 Clinker Silo Baghouse	PM	0.74	3.26
		PM ₁₀	0.74	3.26
		PM _{2.5}	0.11	0.49
E3-38	Clinker Barn East Tunnel	PM	0.56	2.45
		PM ₁₀	0.56	2.45
		PM _{2.5}	0.08	0.37
E3-41	East Clinker Door Baghouse	PM	0.56	2.45
		PM ₁₀	0.56	2.45
		PM _{2.5}	0.08	0.37
E3-42	West Clinker Door Baghouse	PM	0.56	2.45
		PM ₁₀	0.56	2.45
		PM _{2.5}	0.08	0.37
E3-43A	No. 1 Finish Mill Feed Belt Cartridge	PM	0.15	0.65

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		PM ₁₀	0.15	0.65
		PM _{2.5}	0.02	0.10
E3-45	Raw Material Storage Pile	PM	0.04	0.16
		PM ₁₀	0.02	0.08
		PM _{2.5}	<0.01	0.01
E3-50	Additive Hopper, Drop Fugitive (6)	PM	0.02	0.02
		PM ₁₀	0.01	0.01
		PM _{2.5}	<0.01	<0.01
E3-51	Additive Hopper, Drop to Belt (6)	PM	0.02	0.02
		PM ₁₀	0.01	0.01
		PM _{2.5}	<0.01	<0.01
E3-52	Pan Conveyor Baghouse	PM	0.54	2.38
		PM ₁₀	0.54	2.38
		PM _{2.5}	0.08	0.36
E3-52A	Clinker Discharge Baghouse	PM	0.32	1.40
		PM ₁₀	0.32	1.40
		PM _{2.5}	0.05	0.21
E3-53	Clinker Belt Transfer Baghouse	PM	0.51	2.22
		PM ₁₀	0.51	2.22
		PM _{2.5}	0.08	0.34
E3-54	Finish Mill No. 6 Bins Baghouse	PM	1.56	6.82
		PM ₁₀	1.56	6.82
		PM _{2.5}	0.24	1.03
E3-55	Finish Mill No. 6 Baghouse	PM	5.76	25.23
		PM ₁₀	2.88	12.61
		PM _{2.5}	0.44	1.91
E3-57	Finish Mill No. 6 Cement Baghouse	PM	0.10	0.44
		PM ₁₀	0.10	0.44
		PM _{2.5}	0.02	0.07

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E4-1	Finish Silo Group No. 4 Baghouse	PM	0.65	2.84
		PM ₁₀	0.65	2.84
		PM _{2.5}	0.10	0.43
E4-2	Finish Silo Group No. 4 Baghouse	PM	0.65	2.84
		PM ₁₀	0.65	2.84
		PM _{2.5}	0.10	0.43
E4-3	Finish Silo Group No. 3 Baghouse	PM	0.18	0.79
		PM ₁₀	0.18	0.79
		PM _{2.5}	0.03	0.12
E4-4	Silo Group 3 Baghouse Stack	PM	0.24	1.04
		PM ₁₀	0.24	1.04
		PM _{2.5}	0.04	0.16
E4-5	Finish Silo Group No. 2 Baghouse	PM	0.43	1.90
		PM ₁₀	0.43	1.90
		PM _{2.5}	0.07	0.29
E4-7	Finish Silo Group No. 1 Baghouse	PM	0.22	0.95
		PM ₁₀	0.22	0.95
		PM _{2.5}	0.03	0.14
E4-8	Finish Silo Group No. 1 Baghouse	PM	0.12	0.51
		PM ₁₀	0.12	0.51
		PM _{2.5}	0.02	0.08
E4-9	Rail Loading Baghouse	PM	0.03	0.14
		PM ₁₀	0.03	0.14
		PM _{2.5}	<0.01	0.02
E4-10	Rail System Baghouse	PM	0.38	1.66
		PM ₁₀	0.38	1.66
		PM _{2.5}	0.06	0.25
E4-11	Rail Loading No. 3 Baghouse	PM	0.12	0.52
		PM ₁₀	0.12	0.52

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		PM _{2.5}	0.02	0.08
E4-12	FM No. 6 Transfer Baghouse	PM	0.45	1.97
		PM ₁₀	0.45	1.97
		PM _{2.5}	0.07	0.30
E4-13	Truck Loadout Baghouse	PM	0.05	0.22
		PM ₁₀	0.05	0.22
		PM _{2.5}	0.01	0.03
E4-16	Truck Loadout No. 2 Baghouse	PM	0.31	1.34
		PM ₁₀	0.31	1.34
		PM _{2.5}	0.05	0.20
E4-17	Truck Loadout No.1 Baghouse	PM	0.31	1.34
		PM ₁₀	0.31	1.34
		PM _{2.5}	0.05	0.20
E4-18	Truck Loading Baghouse	PM	0.31	1.34
		PM ₁₀	0.31	1.34
		PM _{2.5}	0.05	0.20
E4-19	Packhouse Elevator Baghouse	PM	0.20	0.87
		PM ₁₀	0.20	0.87
		PM _{2.5}	0.03	0.13
E4-21	Masonry Rail Loadout	PM	0.03	0.14
		PM ₁₀	0.03	0.14
		PM _{2.5}	<0.01	0.02
E4-22	Truck Loadout Baghouse	PM	0.27	1.18
		PM ₁₀	0.27	1.18
		PM _{2.5}	0.04	0.18
E4-23	Finish Silo Group No. 3 Baghouse Stack	PM	0.22	0.95
		PM ₁₀	0.22	0.95
		PM _{2.5}	0.03	0.14
E4-24	No. 5 Bin Baghouse	PM	0.25	1.11

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		PM ₁₀	0.25	1.11
		PM _{2.5}	0.04	0.17
E4-26	No. 6 Bin Baghouse	PM	0.25	1.11
		PM ₁₀	0.25	1.11
		PM _{2.5}	0.04	0.17
E4-28	No. 3 Load-out Spout Baghouse	PM	0.18	0.79
		PM ₁₀	0.18	0.79
		PM _{2.5}	0.03	0.12
E6-1	Coal Drop from Railcar to Rail Hopper (6)	PM	0.12	0.11
		PM ₁₀	0.06	0.06
		PM _{2.5}	0.01	0.01
E6-2	Coal Drop from Rail Hopper to Belt (6)	PM	0.12	0.11
		PM ₁₀	0.06	0.06
		PM _{2.5}	0.01	0.01
E6-4	Solid Fuel Storage Pile (6)	PM	0.10	0.44
		PM ₁₀	0.05	0.22
		PM _{2.5}	0.01	0.03
E6-9	Coal Loader Drop to Hopper (6)	PM	0.07	0.11
		PM ₁₀	0.04	0.06
		PM _{2.5}	<0.01	0.01
E6-10	Coal Crusher (6)	PM	0.03	0.04
		PM ₁₀	0.01	0.02
		PM _{2.5}	<0.01	<0.01
E6-15	Coal Drop to Belt	PM	0.03	0.04
		PM ₁₀	0.01	0.02
		PM _{2.5}	<0.01	<0.01
E6-18	Coal Drop to Stacker Belt (6)	PM	0.05	0.04
		PM ₁₀	0.03	0.02
		PM _{2.5}	<0.01	<0.01

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E6-27	Solid Fuel Conveyor Diverter Baghouse	PM	0.48	2.11
		PM ₁₀	0.48	2.11
		PM _{2.5}	0.07	0.32
E6-28	Solid Fuel Mill Bin Baghouse	PM	0.12	0.52
		PM ₁₀	0.12	0.52
		PM _{2.5}	0.02	0.08
E6-31	Coal Fines Bin Baghouse	PM	0.01	0.06
		PM ₁₀	0.01	0.06
		PM _{2.5}	<0.01	0.01
ALTF-1	Alt. Solid Fuels Truck Drop to Hopper (6)	PM	0.01	0.02
		PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	<0.01
ALTF-2	Alt. Solid Fuels Screw Drop to Alt Fuel Belt 1 (6)	PM	<0.01	0.02
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
ALTF-3	Alt. Solid Fuels Belt 1 Drop to Belt 2 (6)	PM	<0.01	0.02
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
ALTF-4	Alt. Solid Fuels Belt 2 Drop to Belt 3 (6)	PM	<0.01	0.02
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
ALTF-5	Alt. Solid Fuels Belt 3 Drop to Tower Hopper Screws (6)	PM	<0.01	0.02
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
ALTF-6	Alt. Solid Fuels Hopper Screws to Belt 4 (6)	PM	<0.01	0.02
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
ALTF-7	Alt. Solid Fuels Belt 4 Drop to Belt 5 (6)	PM	<0.01	0.02
		PM ₁₀	<0.01	<0.01

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		PM _{2.5}	<0.01	<0.01
ALTF-8	Alt. Solid Fuels Belt 5 Drop to Feed Screw (6)	PM	<0.01	0.02
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
ALTM-1	Alternate Raw Material Loader Drop to Hopper (6)	PM	0.03	0.01
		PM ₁₀	0.01	<0.01
		PM _{2.5}	<0.01	<0.01
ALTM-2	Alternate Raw Material Hopper Drop to Belt (6)	PM	0.03	0.01
		PM ₁₀	0.01	<0.01
		PM _{2.5}	<0.01	<0.01
BIO-P-1	Alt. Solid Fuels Storage Pile	PM	0.04	0.18
		PM ₁₀	0.02	0.09
		PM _{2.5}	<0.01	0.01
CAT-P-1	Alt. Raw Material Storage Pile	PM	0.04	0.18
		PM ₁₀	0.02	0.09
		PM _{2.5}	<0.01	0.01
CKDL-2	CKD Pile	PM	0.15	0.65
		PM ₁₀	0.07	0.33
		PM _{2.5}	0.01	0.05
FLTC-P-1	Alt. Raw Material Storage Pile	PM	0.04	0.18
		PM ₁₀	0.02	0.09
		PM _{2.5}	<0.01	0.01
IRN-P-1	Alt. Raw Material Storage Pile	PM	0.04	0.18
		PM ₁₀	0.02	0.09
		PM _{2.5}	<0.01	0.01
WB-P-1	Alt. Raw Material Storage Pile	PM	0.04	0.18
		PM ₁₀	0.02	0.09
		PM _{2.5}	<0.01	0.01
WD-P-1	Alt. Raw Material Storage Pile	PM	0.04	0.18

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MSSFUG	Inherently Low-Emitting Planned Maintenance Activities (6)	PM ₁₀	0.02	0.09
		PM _{2.5}	<0.01	0.01
		PM	1.47	1.25
		PM ₁₀	0.90	0.92
		PM _{2.5}	0.31	0.36
		NO _x	0.02	<0.01
		CO	0.50	<0.01
		SO ₂	0.01	0.01
		VOC	1.45	<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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- NO_x - total oxides of nitrogen
- SO₂ - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
- PM₁₀ - 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
- TRS - total reduced sulfur
- H₂S - hydrogen sulfide
- HCl - hydrogen chloride
- H₂SO₄ - sulfuric acid
- Hg - mercury
- Pb - lead
- CKD - Cement Kiln Dust
- (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 is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (7) Compliance is based on a 30 day rolling average excluding periods of startup / shutdown.
- (8) Compliance is based on a 24-hr rolling average excluding periods of startup / shutdown.

Date: October 12, 2018