

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 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 PM/PM₁₀ emissions on this table are the only contaminants subject to Prevention of Significant Deterioration requirements, under Permit Number PSDTX1101. 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 Rates* Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission</u> lb/hr	TPY
Point Sources				
S-C-36	Preheater/Precalciner Kiln and Inline Raw Mill	NO _x (5)(6)	420	1,839
		NO _x (5)(7)	272	1,072
		CO(5)	233	919
		SO ₂ (8)	478	104
		PM/PM ₁₀	15.5	61.3
		(filterable)	171	331
		PM/PM ₁₀ (Total)	20.1	27.6
		H ₂ SO ₄ (9)	33.9	121
		VOC (9)	0.09	0.34
		Lead (9)	0.039	0.17
		Hg (9)	19.5	77
		HCl (9)	1.0	3.3
		HF (9)	33.94	121
		Ammonia (9)		
S-A-26	Limestone Hopper, Primary Crushing, and Conveying	PM	3.29	12.96
		PM ₁₀	2.79	11.02
S-A-27	Limestone Conveying from Belt 201014 to Belt 201018	PM	0.27	1.05
		PM ₁₀	0.23	0.89
S-A-28	Limestone Conveying from Belt 201018 to Storage Dome	PM	1.64	6.48
		PM ₁₀	1.40	5.51
S-A-29	Limestone Storage Dome	PM	0.46	1.83
		PM ₁₀	0.39	1.56

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates*</u>	
			lb/hr	TPY
S-A-30	Limestone Storage Dome to Reclaim Feeder 201036	PM	0.26	1.01
		PM ₁₀	0.22	0.86
S-A-31	Raw Material Truck and FEL Dump to Hopper	PM	2.39	9.41
		PM ₁₀	2.03	8.00
S-A-32	Raw Material Hopper Pan Conveyor Transfer to Belt 210008	PM	0.08	0.31
		PM ₁₀	0.07	0.27
S-A-33	Raw Material Crusher and conveying to Belt 210016	PM	0.39	1.52
		PM ₁₀	0.33	1.30
S-A-34	Raw Material Conveying to Belts 330008 and 210020	PM	0.16	0.64
		PM ₁₀	0.14	0.54
S-A-35	Raw Material Shuttle Belt Conveyor to Silos	PM	0.16	0.65
		PM ₁₀	0.14	0.55
S-A-36	Limestone Silo	PM	0.08	0.32
		PM ₁₀	0.07	0.28
S-A-37	Clay Silo	PM	0.08	0.32
		PM ₁₀	0.07	0.28
S-A-38	Iron Oxide Silo	PM	0.08	0.32
		PM ₁₀	0.07	0.28
S-A-39	Alumina Silo	PM	0.08	0.32
		PM ₁₀	0.07	0.28
S-A-40	Silica Silo	PM	0.08	0.32
		PM ₁₀	0.07	0.28
S-A-41	Limestone Silo Weigh Feeder	PM	0.08	0.32
		PM ₁₀	0.07	0.28
S-A-42	Clay Silo Weigh Feeder	PM	0.08	0.32
		PM ₁₀	0.07	0.28

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates*</u>	
			lb/hr	TPY
S-A-43	Iron Oxide Silo Weigh Feeder	PM	0.08	0.32
		PM ₁₀	0.07	0.28
S-A-44	Alumina Silo Weigh Feeder	PM	0.08	0.32
		PM ₁₀	0.07	0.28
S-A-45	Silica Silo Weigh Feeder	PM	0.08	0.32
		PM ₁₀	0.07	0.28
S-A-46	Limestone Transfer from Silo to Belt 330010	PM	0.16	0.65
		PM ₁₀	0.14	0.55
S-B-17	Raw Mill Feed Conveying and Bucket Elevator	PM	0.25	0.97
		PM ₁₀	0.21	0.83
S-B-18	Raw Mill Airslides and Bucket Elevator to Blending Silo	PM	0.27	1.07
		PM ₁₀	0.23	0.91
S-B-19	Airslides to Blending Silo	PM	0.24	0.96
		PM ₁₀	0.21	0.81
S-B-20	Blending Silo	PM	0.40	1.59
		PM ₁₀	0.34	1.35
S-B-21	Surge Bin and Discharge from Blending Silo to Airslides	PM	0.33	1.31
		PM ₁₀	0.28	1.12
S-C-34	Kiln Feed Bucket Elevator 301018 and Kiln Feed Weigh Bin	PM	0.37	1.44
		PM ₁₀	0.31	1.23
S-C-35	Kiln Feed Bucket Elevator 301030 and Conveying	PM	0.26	1.03
		PM ₁₀	0.22	0.88

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates*</u>	
			lb/hr	TPY
S-C-37	Clinker Cooler Transfer to Clinker Cooler Pan Conveyor 330002	PM	0.10	0.39
		PM ₁₀	0.08	0.33
S-C-38	Clinker Conveying	PM	0.58	2.27
		PM ₁₀	0.49	1.93
S-C-39	Off-Spec Clinker Bin	PM	0.11	0.42
		PM ₁₀	0.09	0.36
S-C-40	Oil Well Clinker Storage Dome	PM	1.54	6.08
		PM ₁₀	1.31	5.17
S-C-41	Clinker Storage Dome	PM	1.54	6.08
		PM ₁₀	1.31	5.17
S-C-42	Reclaim from Clinker Domes to Pan Conveyor 330034	PM	0.24	0.96
		PM ₁₀	0.21	0.81
S-C-43	FM Additives Conveying to Pan Conveyor 330034	PM	0.20	0.79
		PM ₁₀	0.17	0.68
S-C-44	Pan Conveyor 330034 Discharge to Conveyor 530002	PM	0.40	1.59
		PM ₁₀	0.34	1.35
S-C-45	Conveyor 530002 To Clinker and FM Additives Feed Bins	PM	0.40	1.59
		PM ₁₀	0.34	1.35
S-C-46	Type I and II Clinker Feed Bin	PM	0.08	0.31
		PM ₁₀	0.07	0.26
S-C-47	Oil Well Clinker Feed Bin	PM	0.08	0.31
		PM ₁₀	0.07	0.26
S-C-48	Limestone Feed Bin	PM	0.08	0.32
		PM ₁₀	0.07	0.28

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates*</u>	
			lb/hr	TPY
S-C-49	Gypsum Feed Bin	PM	0.08	0.32
		PM ₁₀	0.07	0.28
S-C-50	Anhydrite Feed Bin	PM	0.08	0.32
		PM ₁₀	0.07	0.28
S-C-51	Type I and II Clinker Feed Bin Weigh Feeder No. 1	PM	0.08	0.32
		PM ₁₀	0.07	0.28
S-C-52	Type I and II Clinker Feed Bin Weigh Feeder No. 2	PM	0.08	0.32
		PM ₁₀	0.07	0.28
S-C-53	Oil Well Clinker Feed Bin Weigh Feeder No. 1	PM	0.08	0.32
		PM ₁₀	0.07	0.28
S-C-54	Oil Well Clinker Feed Bin Weigh Feeder No. 2	PM	0.08	0.32
		PM ₁₀	0.07	0.28
S-C-55	Limestone Feed Bin Weigh Feeder No.1	PM	0.08	0.32
		PM ₁₀	0.07	0.28
S-C-56	Limestone Feed Bin Weigh Feeder No.2	PM	0.08	0.32
		PM ₁₀	0.07	0.28
S-C-57	Gypsum Feed Bin Weigh Feeder No. 1	PM	0.08	0.32
		PM ₁₀	0.07	0.28
S-C-58	Gypsum Feed Bin Weigh Feeder No. 2	PM	0.08	0.32
		PM ₁₀	0.07	0.28
S-C-59	Anhydrite Feed Bin Weigh Feeder No. 1	PM	0.08	0.32
		PM ₁₀	0.07	0.28
S-C-60	Anhydrite Feed Bin Weigh Feeder No. 2	PM	0.08	0.32
		PM ₁₀	0.07	0.28
S-C-61	Clinker Bins Discharge to Finish Mill No. 1 Feed Belt 530086	PM	0.16	0.63
		PM ₁₀	0.14	0.53

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates*</u>	
			lb/hr	TPY
S-C-62	Clinker Bins Discharge to Finish Mill No. 2 Feed Belt 530088	PM	0.16	0.63
		PM ₁₀	0.14	0.53
S-C-63	Additives Bins Discharge to Finish Mill No. 1 Feed Belt 530086	PM	0.16	0.65
		PM ₁₀	0.14	0.55
S-C-64	Additives Bins Discharge to Finish Mill No. 2 Feed Belt 530088	PM	0.16	0.65
		PM ₁₀	0.14	0.55
S-D-20	Finish Mill No. 1 Discharge from Finish Tunnel to Bucket Elevator	PM	0.16	0.65
		PM ₁₀	0.14	0.55
S-D-21	Finish Mill No. 1 Feed Belt	PM	0.16	0.65
		PM ₁₀	0.14	0.55
S-D-22	Finish Mill No. 1 Separator	PM	5.19	20.48
		PM ₁₀	4.42	17.40
S-D-22, S-D-26	Natural Gas-Fired Air Heater (20 MMBtu/hr) to Finish Mill No. 1 and/or Finish Mill No. 2	NO _x	0.73	2.87
		CO	0.50	1.96
		VOC	0.11	0.43
		SO ₂	0.01	0.05
S-D-23	Finish Mill No. 1 Air Slide Discharge to Cement Silos Bucket Elevator	PM	0.16	0.65
		PM ₁₀	0.14	0.55
S-D-24	Finish Mill No. 2 Discharge from Finish Tunnel to Bucket Elevator	PM	0.16	0.65
		PM ₁₀	0.14	0.55
S-D-25	Finish Mill No. 2 Feed Belt	PM	0.16	0.65
		PM ₁₀	0.14	0.55

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates*</u>	
			lb/hr	TPY
S-D-26	Finish Mill No. 2 Separator	PM	5.19	20.48
		PM ₁₀	4.42	17.40
S-D-27	Finish Mill No. 2 Air Slide Discharge to Cement Silos Bucket Elevator	PM	0.16	0.65
		PM ₁₀	0.14	0.55
S-D-28	Belt 501058 Discharge to Bucket Elevator and FM No. 1 Air Slides	PM	0.27	1.07
		PM ₁₀	0.23	0.91
S-D-29	FM No. 1 Air Slides to Westernmost Cement Silos	PM	0.22	0.87
		PM ₁₀	0.19	0.74
S-D-30	FM No. 1 Air Slides to West Cement Silos	PM	0.22	0.87
		PM ₁₀	0.19	0.74
S-D-31	FM No. 1 Air Slides to East Cement Silos	PM	0.22	0.87
		PM ₁₀	0.19	0.74
S-D-32	Belt 502058 Discharge to Bucket Elevator and FM No. 2 Air Slides	PM	0.27	1.07
		PM ₁₀	0.23	0.91
S-D-33	FM No. 2 Air Slides to Westernmost Cement Silos	PM	0.22	0.87
		PM ₁₀	0.19	0.74
S-D-34	FM No. 2 Air Slides to West Cement Silos	PM	0.22	0.87
		PM ₁₀	0.19	0.74
S-D-35	FM No. 2 Air Slides to East Cement Silos	PM	0.22	0.87
		PM ₁₀	0.19	0.74
S-D-7	Westernmost Masonry Cement Silo	PM	0.16	0.63
		PM ₁₀	0.14	0.53
S-D-5	Westernmost Cement Silos	PM	0.16	0.63
		PM ₁₀	0.14	0.53

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates*</u>	
			lb/hr	TPY
S-D-36	West Cement Silos	PM	0.16	0.63
		PM ₁₀	0.14	0.53
S-D-6	East Cement Silos	PM	0.16	0.63
		PM ₁₀	0.14	0.53
S-D-37	Westernmost Cement Silos Reclaim Belt 530222 No. 1	PM	0.08	0.31
		PM ₁₀	0.07	0.27
S-D-38	Westernmost Cement Silos Reclaim Belt 530222 No. 2	PM	0.08	0.31
		PM ₁₀	0.07	0.27
S-D-39	Westernmost Cement Silos Reclaim Belt 530222 No. 3	PM	0.08	0.31
		PM ₁₀	0.07	0.27
S-D-40	West Cement Silos Reclaim Belt 530262 No. 1	PM	0.08	0.31
		PM ₁₀	0.07	0.27
S-D-41	West Cement Silos Reclaim Belt 530262 No. 2	PM	0.08	0.31
		PM ₁₀	0.07	0.27
S-D-42	West Cement Silos Reclaim Belt 530262 No. 3	PM	0.08	0.31
		PM ₁₀	0.07	0.27
S-D-43	East Cement Silos Reclaim Belt 530306 No. 1	PM	0.08	0.31
		PM ₁₀	0.07	0.27
S-D-44	East Cement Silos Reclaim Belt 530306 No. 2	PM	0.08	0.31
		PM ₁₀	0.07	0.27
S-D-45	East Cement Silos Reclaim Belt 530306 No. 3	PM	0.08	0.31
		PM ₁₀	0.07	0.27
S-D-46	Westernmost Cement Silos Belt 530222 To Bucket Elevator	PM	0.24	0.94
		PM ₁₀	0.20	0.80

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates*</u>	
			lb/hr	TPY
S-D-47	West Cement Silos Belt 530262 to Bucket Elevator	PM	0.24	0.94
		PM ₁₀	0.20	0.80
S-D-48	East Cement Silos Reclaim Belt 530306 to Bucket Elevator	PM	0.24	0.94
		PM ₁₀	0.20	0.80
S-E-27	Discharge to Track No. 2 Rail Loading Bin	PM	0.11	0.45
		PM ₁₀	0.10	0.38
S-E-28	Discharge to Track No. 3 Rail Loading Bin	PM	0.11	0.45
		PM ₁₀	0.10	0.38
S-E-29	Discharge to Track No. 4 Rail Loading Bin	PM	0.11	0.45
		PM ₁₀	0.10	0.38
S-E-30	Track No. 2 Rail Loading Bin Loadout	PM	0.08	0.31
		PM ₁₀	0.07	0.27
S-E-31	Track No. 3 Rail Loading Bin Loadout	PM	0.08	0.31
		PM ₁₀	0.07	0.27
S-E-32	Track No. 4 Rail Loading Bin Loadout	PM	0.08	0.31
		PM ₁₀	0.07	0.27
S-E-33	Discharge to South End Truck Loading Bins	PM	0.27	1.07
		PM ₁₀	0.23	0.91
S-E-8	Discharge to North End Truck Loadout Bins	PM	0.12	0.47
		PM ₁₀	0.10	0.40
S-E-34	South End Truck Loading Bins Loadout	PM	0.10	0.41
		PM ₁₀	0.09	0.35
S-E-1	North End Truck Loadout Spout and Transport System	PM	0.38	1.50
		PM ₁₀	0.32	1.28

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates*</u>	
			lb/hr	TPY
S-E-9	Discharge to North End Truck Loadout Bins	PM	0.16	0.62
		PM ₁₀	0.13	0.53
S-E-4	No. 1 Packing Machine	PM	0.71	2.79
		PM ₁₀	0.60	2.37
S-E-5	No. 2 Packing Machine	PM	0.71	2.79
		PM ₁₀	0.60	2.37
S-E-6	No. 3 Packing Machine	PM	0.71	2.79
		PM ₁₀	0.60	2.37
S-E-7	No. 4 Packing Machine	PM	0.71	2.79
		PM ₁₀	0.60	2.37
S-G-25	Carbon Black Silo	PM	0.08	0.31
		PM ₁₀	0.07	0.27
S-G-26	Coal/Coke Conveying to Screen	PM	0.08	0.32
		PM ₁₀	0.07	0.28
S-G-27	Coal/Coke Crusher	PM	0.33	1.30
		PM ₁₀	0.28	1.10
S-G-28	Coal Coke Screening and Conveying	PM	0.66	2.61
		PM ₁₀	0.56	2.22
S-G-3	Existing Solid Fuel Silo - Coke (West Silo)	PM	0.21	0.81
		PM ₁₀	0.18	0.69
S-G-2	Existing Solid Fuel Silo - Coal (East Silo)	PM	0.36	1.41
		PM ₁₀	0.30	1.20
S-G-29	Raw Coal/Coke Bin	PM	0.08	0.32
		PM ₁₀	0.07	0.28

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates*</u>	
			lb/hr	TPY
S-G-30	Coal/Coke Conveyor 351020 from Bin to Ball Mill	PM	0.16	0.65
		PM ₁₀	0.14	0.55
S-G-31	Coal/Coke Ball Mill	PM	2.95	11.62
		PM ₁₀	2.51	9.87
S-G-32	Kiln Pulverized Coal/Coke Bin	PM	0.12	0.47
		PM ₁₀	0.10	0.40
S-G-33	Precalciner Pulverized Coal/Coke Bin	PM	0.12	0.48
		PM ₁₀	0.10	0.40

Fugitive Emissions from Material Drops (10)

F-A-8	Quarry Loader Drop to Truck	PM	8.21	29.96
		PM ₁₀	3.88	14.17
F-A-25	Limestone Truck Dump to Hopper	PM	1.23	4.49
		PM ₁₀	0.58	2.13
F-G-7	Rail Car Drop to Coal System Hopper	PM	0.05	0.18
		PM ₁₀	0.02	0.09
F-G-8	Rail Feeder Drop to Coal Belt	PM	0.01	0.03
		PM ₁₀	0.00	0.01
F-G-23	Coal Silos Feeders Drop to Belt	PM	0.01	0.03
		PM ₁₀	0.00	0.01
F-G-21	Coal Loader Drop to Hopper	PM	0.01	0.05
		PM ₁₀	0.01	0.02
F-G-24	Coal Hopper Drop to Belt	PM	0.00	0.01
		PM ₁₀	0.00	0.00

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
			lb/hr	TPY
F-G-20	Coal Return Belt Transfer Drop	PM PM ₁₀	0.01 0.00	0.03 0.01
Fugitive Emissions from Outdoor Material Storage Piles (wind erosion and drops to piles)(10)				
F-A-14	Gypsum Pile	PM PM ₁₀	0.01 0.01	0.04 0.02
F-A-15	Silica Pile	PM PM ₁₀	0.01 0.01	0.04 0.02
F-A-16B	Iron Oxide Pile	PM PM ₁₀	0.01 0.01	0.04 0.02
F-A-17	Anhydrite Pile	PM PM ₁₀	0.01 0.01	0.04 0.02
F-A-18	Clay Pile	PM PM ₁₀	0.04 0.02	0.14 0.07
F-A-20B	Alumina Pile	PM PM ₁₀	0.01 0.01	0.04 0.02
F-A-12	Coal Storage Pile	PM PM ₁₀	0.02 0.01	0.09 0.05
F-A-13	Coke Storage Pile	PM PM ₁₀	0.02 0.01	0.09 0.05
Fugitive Emissions from Roadways (10)				
F-A-3	Quarry Loader Road Emission	PM PM ₁₀	1.26 0.36	4.59 1.31
F-M-1	Quarry Trucks Road Emission	PM PM ₁₀	15.22 4.33	55.55 15.80

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
			lb/hr	TPY
F-A-23	Raw Material Deliveries Road Emissions	PM PM ₁₀	3.58 0.70	13.05 2.55
F-A-24	Fuel Deliveries Road Emissions	PM PM ₁₀	0.23 0.04	0.83 0.16
F-E-26	Product Trucks Road Emissions	PM PM ₁₀	5.33 1.04	19.47 3.80
Fugitive Emissions from Quarry Blasting (10)				
F-A-1	Blasting Hole Drill Fugitives	PM PM ₁₀	0.04 0.02	0.15 0.07
F-A-10	Blasting	PM PM ₁₀	0.31 0.16	1.12 0.58
Emissions from Tanks (including fueling activities)				
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
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 names. 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
PM - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
PM₁₀ - particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.

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SO₂ - sulfur dioxide

H₂SO₄ - sulfuric acid

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

HCl - hydrogen chloride

Hg - mercury (elemental)

- (4) Compliance with all annual emission limits (tons per year) is based on a rolling 12-month basis.
- (5) Compliance with hourly emission rate is based on a 30-day rolling average.
- (6) Limit is applicable for first 12 months of kiln operation.
- (7) Limit is applicable on the 30th day after 12 months of kiln operation.
- (8) Compliance with hourly limit is based on a three-hour rolling average.
- (9) Compliance with hourly limit is based on the average of three one-hour test runs.
- (10) Fugitive emission rate is an estimate and is enforceable through compliance with the applicable special conditions and permit application representations.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

Dated March 31, 2011