Permit Numbers 5933 and PSD-TX-63M3

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. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Emission	Source	Source Air		Contaminant	<u>Emissio</u>	Emission Rates *	
Point No. (1)	Name (2)			Name (3)	lb/hr	TPY	
Baghouse Controls							
1-AE-1	Rock Crushing and ransfer Baghouse		(5)(6)	PM ₁₀	2.11	9.26	
Transfer Bagnee	•	(5)(7)	PM_{10}	0.92	4.04		
1-AE-2	Sampling Tower Bag	ghouse)	(5) 1.88	PM ₁₀	0.43	
1-BE-1	Raw Material Bagho	use	(5)	PM ₁₀	0.43	1.88	
1-BE-2	Raw Material Bin Baghouse		(5)	PM ₁₀	0.43	1.88	
1-DE-1	Transfer Blend Silos Baghouse	5	(5)	PM ₁₀	0.59	2.58	
1-DE-2	Blend Silos Pneuma System Baghouse	ıtic	(5)	PM ₁₀	0.29	1.29	
1-DE-2a	Air Slide Feed Buck		(5)(6)	PM ₁₀	0.42	1.88	
	Lievator Dayriouse	Elevator Baghouse (7)		0.21	0.94		

Emission	Source	Source		Contaminant	Emission Rates *	
Point No. (1)	Name (2)			Name (3)	lb/hr	TPY
1.05.0	N 41/2 0 1	S. 1			000.0	0.004.0
1-DE-3	No. 1 Kiln System S		SO ₂	CO 50.0	660.2 35.00	2,891.8
		(5)	30 ₂ H ₂ SO		35.00	
	` ,		PM ₁₀	50.0	219.0	
			VOC	20.0	87.6	
			HC1	3.6	15.8	
		(5)(6)		390.0	1,708.0	
				April 1 - Oct 31)	232.0	595.7
		(5)(7)	NO _x (N	lov 1 - Mar 31)	390.0	706.7
		(8)	NH_3	51.0	37.9	
1-DE-4	Clinker Cooler Exha Baghouse	aust	(5)	PM ₁₀	13.5	59.13
1-EE-1	Coal Mill Baghouse)	(5)	PM ₁₀	1.33	5.8
1-FE-1	Clinker Bin Baghou	Clinker Bin Baghouse		PM ₁₀	0.43	1.88
			(7)	PM ₁₀	0.21	0.94
1-FE-2	Clinker Storage Bu	ilding	(5)(6)	PM ₁₀	0.86	3.75
	Baghouse	(7)	PM ₁₀	0.43	1.88	
1-FE-3	Gypsum and Anhyo Silos Transfer Bag		(5)(6)	PM ₁₀	0.43	1.88
	טווט דומווטוכר טמנ	jiiousc	(7)	PM ₁₀	0.21	0.94
1-FE-4	Gypsum and Anhyo Silos Bin Baghous		(5)(6)	PM ₁₀	0.43	1.88
	Silos Bill Baglious		(7)	PM ₁₀	0.21	0.94
1-FE-5	Transfer Tower No. Baghouse	2	(5)	PM ₁₀	0.26	1.13

Emission	Source		Air Contaminant		Emission Rates *	
Point No. (1)	Name (2)			Name (3)	lb/hr	TPY
				· · · · · · · · ·		
1-FE-6	Clinker Merrick Fee Baghouse	eder	(5)(6)	PM ₁₀	0.43	1.88
	2ag.reace	(7)	PM_{10}	0.21	0.94	
1-FE-7	Clinker Transfer Po No. 1 Baghouse	oint	(5)(6)	PM_{10}	0.86	3.75
	No. 1 Bugnouse	(7)	PM ₁₀	0.43	1.88	
1-FE-8	Fringe Cement Tar Baghouse	ık	(5)(6)	PM ₁₀	0.43	1.88
	(7)	(7)	PM ₁₀	0.21	0.94	
1-FE-9	Fringe Cement Tank	ık	(5)(6)	PM ₁₀	0.43	1.88
	Baghouse	(7)	PM ₁₀	0.21	0.94	
1-FE-14	Gypsum Merrick Fe Baghouse	eeder	(5)(6)	PM ₁₀	0.43	1.88
	Daynouse	(7)	PM ₁₀	0.21	0.94	
1-FE-16	Clinker Bin Drop Baghouse		(5)(6)	PM ₁₀	0.43	1.88
	Daynouse	(7)	PM ₁₀	0.21	0.94	
1-FE-17	Clinker Reclaim	0	(5)(6)	PM ₁₀	0.86	1.13
	Building Baghous	e (7)	PM ₁₀	0.43	1.88	
1-GE-1	Finish Mill No. 1 Ba	ghous	e	(5)(6) 8.58	PM ₁₀	1.96
		(7)	PM ₁₀	0.88	3.86	

Emission	Source	Source Air		Contaminant	Emission Rates *	
Point No. (1)	Name (2)			Name (3)	lb/hr	TPY
1-GE-2	Finish Mill No. 2 Ba	ahous	e	(5)(6)	PM ₁₀	1.81
I OL Z	i iiii3ii iviiii ivo. 2 Ba	grious		7.94	1 14170	1.01
		(7)	PM_{10}	0.95	4.17	
1-GE-4	Gypsum Transfer Tower No. 1		(5)(6)	PM ₁₀	0.26	1.13
	Baghouse		(7)	PM ₁₀	0.13	0.56
1-GE-5	Gypsum Transfer Tower No. 2 Baghouse		(5)	PM ₁₀	0.26	1.13
1-GE-7	Finish Mill No. 2 Ba	Finish Mill No. 2 Baghouse		(5) 2.15	PM ₁₀	0.49
1-GE-8	Finish Mill No. 1 Ba	ghous	e	(5) 2.79	PM ₁₀	0.64
1-HE-1	Cement Silo Bagho	use (7)	(5)(6) PM ₁₀	PM ₁₀ 0.21	0.43 0.94	1.88
1-HE-2	Cement Silo Bagho	use (7)	(5)(6) PM ₁₀	PM ₁₀ 0.21	0.43 0.94	1.88
1-HE-3	Cement Loadout Pu	ımp	(5)(6)	PM ₁₀	0.26	1.13
	No. 1 Dagnouse	(7)	PM ₁₀	0.21	0.94	
1-HE-4	Loadout Bin No. 1 Baghouse		(5)(6)	PM ₁₀	0.43	1.88
	Dagnouse	(7)	PM ₁₀	0.21	0.94	
1-HE-5	Loadout Bin No. 2 Baghouse		(5)(6) (7)	PM ₁₀ PM ₁₀	0.43 0.21	1.88 0.94

Emission	Source	Air	Contaminant	<u>Emission</u>	
Point No. (1)	Name (2)		Name (3)	lb/hr	<u>TPY</u>
1-HE-6	Cement Loadout Pump No. 2 Baghouse	(5)(6)	PM ₁₀	0.26	1.13
	(7)	PM_{10}	0.21	0.94	
1-HE-7	Truck/Rail Loadout Baghouse	(5)(6) (7)	PM ₁₀ PM ₁₀	0.43 0.21	1.88 0.94
	Dagnouse	(1)	1 14110	0.21	0.54
1-HE-8	Truck/Rail Loadout Baghouse	(5)(6)	PM ₁₀	0.43	1.88
	Dagnouse (PM_{10}	0.21	0.94	
1-HE-10	Loadout Bin Baghouse (7)	(5)(6) PM ₁₀	PM ₁₀ 0.21	0.43 0.94	1.88
2-BE-1	Steel Slag Feed Baghou	Steel Slag Feed Baghouse		PM ₁₀	0.25
2-DE-1	Feed No. 1 Transfer to I	Feed No. 1 Transfer to Raw (PM ₁₀	0.26
	Bins Baghouse				
2-DE-1a	Limestone/Clay and Sar Feed Bins Baghouse	nd (5)	PM_{10}	0.21	0.94
2-DE-1b	Feed No. 2 Transfer to I	Raw	(5)	PM ₁₀	0.19
	Bins Baghouse		0.84		
2-DE-1c	Limestone/Fluid Catalyt Cracking Catalyst Feed Bins Baghouse	c (5)	PM_{10}	0.19	0.84
2-DE-1d	Raw Bins Feed Convey Baghouse	or (5)	PM ₁₀	0.43	1.88
2-DE-2	Raw Bins to Roller Mill	(5)	PM ₁₀	0.15	0.66

Emission Point No. (1)	Source Name (2)		Air	Contaminant Name (3)	Emiss lb/hr	ion Rates * TPY
	Pneumatic System Baghouse					
2-DE-2a	Air Slide to Blend Sil Baghouse	0	(5)	PM ₁₀	0.02	0.09
2-DE-2b	Air Slide/Screw Pum Blend Silo Baghouse	p to	(5)	PM ₁₀	0.30	1.31
2-DE-2c	Air Slide to Blend Sil Baghouse	0	(5)	PM ₁₀	0.94	4.13
2-DE-2d	Blend Silo Baghouse	Э	(5)	PM ₁₀	0.21	0.94
2-DE-2e	Raw Feed to Prehea Baghouse	ater	(5)	PM ₁₀	0.04	0.19
2-DE-2f	Recirculating Filter D Baghouse	Oust	(5)	PM ₁₀	0.26	1.13
2-DE-3		(5) (5) (5) (5) (5)	(5) NO _x SO ₂ H ₂ SO VOC CO HCI (8)	PM ₁₀ total PM ₁₀ filterable PM ₁₀ condensible 292.50 100.00 4 10.00 15.00 237.00 4.50 NH ₃	34.20 10.20 24.00 1218.75 50.00 5.00 62.50 987.50 18.97 9.02	144.68 44.68 100.00
1-DE-3 and 2-DE-3	Combined Annual Nos. 1 and 2 Kiln Sta	,,	(5)	NO _x		2,521.08
2-DE-4	No. 2 Clinker Cooler		(5)	PM ₁₀	4.76	20.85

Emission	Source	Air	· Contaminant	Emission	Rates *
Point No. (1)	Name (2)		Name (3)	lb/hr	<u>TPY</u>
	Exhaust Baghouse				
2-DE-5	Cement Kiln Dust Bin Baghouse	(5)	PM_{10}	0.25	1.09
2-EE-1	Coal Mill (B) Feed System Baghouse	(5)	PM ₁₀	0.25	1.09
2-FE-1	Clinker Dome/Feed Syster Baghouse	m	(5) 2.82	PM ₁₀	0.64
2-FE-1a	No. 1 Clinker Outhaul Baghouse	(5)	PM ₁₀	0.13	0.56
2-FE-2a	No. 2 Clinker Outhaul Baghouse	(5)	PM ₁₀	0.24	1.03
2-FE-2	Offspec Clinker Bin Baghouse	(5)	PM ₁₀	0.34	1.50
2-FE-3	Clinker Belt to Feed Bin Baghouse	(5)	PM_{10}	0.34	1.50
2-FE-4	Clinker Feed Bin Baghouse	(5)	PM ₁₀	0.34	1.50
2-FE-5	Clinker Feed Belt to Mill Baghouse	(5)	PM_{10}	0.15	0.66
2-FE-6	Gypsum/Anhydrite and Limestone Finish Bins Baghouse	(5)	PM ₁₀	0.30	1.31
2-FE-7	Gypsum/Anhydrite and Limestone Feeder Belts Baghouse	(5)	PM ₁₀	0.34	1.50

Emission	Source	Air	Contaminant	Emission F	
Point No. (1)	Name (2)		Name (3)	lb/hr	<u>TPY</u>
2-FE-8	Gypsum/Anhydrite and Limestone Bucket Elevator Baghouse	(5)	PM ₁₀	0.34	1.50
2-FE-10	Finish Mill No. 3 Material Feed Baghouse	(5)	PM ₁₀	0.09	0.38
2-GE-1	Finish Mill No. 3 Baghouse	Э	(5) 11.81	PM ₁₀	2.70
2-GE-2	Finish Mill No. 3 Air Slides Bucket Elevator Baghous	` ,	PM ₁₀	0.21	0.94
2-GE-3	Finish Mill No. 3 Air Slides Cement Coolers Baghou	` '	PM ₁₀	0.10	0.43
2-HE-1	Cement Dome Baghouse	(5)	PM ₁₀	1.07	4.69
2-HE-1a	Cement Dome Baghouse	(5)	PM ₁₀	0.34	1.50
2-HE-2 Terr	Cement Loadout Truck minal Baghouse	(5)	PM ₁₀	0.54	2.35
2-HE-3	Cement Loadout Rail Terminal Baghouse	(5)	PM ₁₀	0.54	2.35
Fugitive Emissions fro	m Material Drops				
1-AE-4	Limestone Drop f/FE Loader to Truck (Q)	(4)(5)	PM PM ₁₀	4.36 2.06	8.30 3.93
1-AE-6	Off-Spec Clinker Drop f/Truck to Pile (Q)	(4)(5)	PM PM ₁₀	0.35 0.17	0.17 0.28

Emission Point No. (1)	Source Name (2)	Air	Contaminant Name (3)	Emission F	Rates *
<u>1 OIIIC NO. (1)</u>	Name (2)		- Name (o)	10/111	
1-AE-11	Limestone Drop from Truck to Crusher Bldg. Hopper	(4)5)	PM PM ₁₀	1.31 0.62	2.49 1.18
1-AE-12	Clay Drop from Front End Loader to Clay Hopper	(4)(5)	PM PM ₁₀	0.06 0.03	0.08 0.39
1-AE-14	Clay Drop from Truck to Clay Storage Shed	(4)(5)	PM PM ₁₀	0.06 0.03	0.08 0.04
1-AE-15	Clinker Drop f/ FE Loader to Crusher Hopper (Q)	(4)(5)	PM PM ₁₀	0.70 0.33	1.19 0.56
1-AE-16	Hopper Drop to Stacker (C	2) (4)(5)	PM PM ₁₀	0.70 0.33	1.19 0.56
1-AE-17	Clinker Drop from FE Loader to Truck (Q)	(4)(5)	PM PM ₁₀	0.70 0.33	1.19 0.56
1-AE-18	Clinker Drop f/FE Loader to Crusher Hopper (Q)	(4)(5)	PM PM ₁₀	0.70 0.33	1.19 0.56
1-AE-19	Hopper Drop to Crusher and Crushing (Q)	(4)(5)	PM PM ₁₀	0.06 0.004	0.28 0.02
1-AE-21	Reclaimed Clinker Drop to Feed Hopper No. 1	(4)(5)	PM ₁₀	0.13	0.56
1-AE-22	Feed Hopper Drop to Screw Conveyor	(4)(5)	PM ₁₀	0.02	0.08
1-BE-10	Iron Additive Drop from FE Loader to Hopper	(4)(5)	PM PM ₁₀	0.02 0.01	0.04 0.02

Emission	Source	Air	Contaminant _	Emission	Rates *
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY
1-EE-2	Dump Truck Emissions	(4)(5) PM ₁₀	PM 0.05	0.12 0.2	0.5
1-EE-3	Dump to Pile Fugitives	(4)(5) PM ₁₀	PM 0.03	0.07 0.1	0.3
1-EE-4	Loader to Coal Hopper	(4)(5) PM ₁₀	PM 0.01	0.07 <0.1	0.3
1-EE-4PC	Loader to Coke Hopper	(4)(5) PM ₁₀	PM <0.01	0.04 <0.1	0.2
1-EE-5	Hopper to Coal Belt	(4)(5) PM ₁₀	PM 0.03	0.07 0.1	0.3
1-EE-5PC	Hopper to Coke Belt	(4)(5) PM ₁₀	PM 0.02	0.04 0.1	0.2
1-EE-6PC	Coke Belt to Coke Feeder	(4)(5)	PM PM ₁₀	0.04 0.02	0.2 0.1
1-EE-7PC	Coke Feeder to Coke Belt	(4)(5) PM ₁₀	PM 0.02	0.04 0.1	0.2
1-EE-8	Coal Belt to Coal Bin	(4)(5) PM ₁₀	PM <0.01	0.01 <0.1	0.1
1-EE-9	Coal Belt B to Coal Bin B	(4)(5)	PM PM ₁₀	<0.01 <0.01	0.01 <0.01
1-GE-9	Coal Railcar to Rail Hopper	(4)(5) (6)	PM PM ₁₀	0.01 <0.01	<0.1 <0.1
	(7)	PM PM ₁₀	0.043 0.02	0.055 0.026	

Emission	Source	Air	Contaminant	Emission I	Rates *
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY
1-GE-10	Coal Rail Hopper to Outhaul Belt	(4)(5) (6)	PM PM ₁₀	0.01 <0.01	<0.1 <0.1
	(7)	PM PM ₁₀	0.043 0.02	0.055 0.026	
1-GE-11	Coal Outhaul Belt to Dump Truck via Chute	(4)(5) (6)	PM PM ₁₀	0.07 0.03	0.3 0.1
	(7)	PM PM ₁₀	0.17 0.08	0.37 0.17	
1-FE-18	Reclaim Clinker Drop from Truck to Hopper	(4)(5)	PM PM ₁₀	0.35 0.17	0.60 0.28
2-FE-9	Truck to Samson Apron Feeder	(4)(5)	PM PM ₁₀	0.10 0.05	0.10 0.05
PC-1A	FE Loader Drop to Grizzly Feeder	(4)(5)	PM ₁₀	1.11	1.11
Fugitive Emissions piles)	from Outdoor Material Storag	ge Piles	(includes windblown	erosion and	d drops to
1-BE-3	Sand Stockpile	(4)(5)	PM PM ₁₀	0.21 0.10	0.90 0.45
1-BE-6	Iron Additive Stockpile	(4)(5) PM ₁₀	PM 0.06	0.12 0.27	0.54
1-BE-7	Coal Pile Wind Erosion	(4)(5) PM ₁₀	PM 0.07	0.16 0.3	0.7

Emission	Source	Air	Contaminant	Emission F	Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	<u>TPY</u>	
1-BE-7PC	Coke Pile Wind Erosion	(4)(5) PM ₁₀	PM 0.07	0.16 0.3	0.7	
1-GE-13	Gypsum Additive Stockpile	(4)(5)	PM PM ₁₀	0.07 0.04	0.33 0.16	
1-GE-14	Anhydrite Additive Stockpile	(4)(5)	PM PM ₁₀	0.02 0.01	0.11 0.05	
1-I-1	Clinker Stockpile (Q)	(4)(5)	PM PM ₁₀	0.20 0.09	0.87 0.41	
Ammonia Emissions from SNCR Storage Tanks and Equipment Fugitive						
Tank-NH₃	Ammonia Storage Tank		NH ₃	1.33	5.91	
F-NH ₃	Component Fugitive	(4)	NH ₃	0.48	2.12	

- (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) PM particulate matter, suspended in the atmosphere, including PM_{10}
 - PM_{10} particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
 - CO carbon monoxide
 - SO₂ sulfur dioxide
 - H₂SO₄ sulfuric acid
 - VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - HCl hydrogen chloride
 - NO_x total oxides of nitrogen, calculated as nitrogen dioxide
 - NH₃ ammonia

Emission		Source	Air Contaminant	Emission Rates *	
Point No. (1)		Name (2)	Name (3)	lb/hr	TPY
(4) (5) (6) (7) (8) (Q)	Fugitive emissions are an estimate only. Emission limits applicable to State and PSD Permit. Before initial start-up of Kiln/Precalciner No. 2. After initial startup of Kiln/Precalciner No. 2. Based on a 24-hour rolling average. Source located in quarry area.				
*	Emission rates are based on, and the facilities are limited to, a maximum rates of:				
	195 tons per hour of dry feed to the preheater tower Kiln/Precalciner No. 1; and				
	150 tons per hour of clinker from Kiln/Precalciner No. 2.				
	The followi	ng is the maximum opera	ating schedule:		
	Hrs/day <u>24</u>	_ Days/Week <u>7</u> Weel	ks/Year <u>52</u> or Hrs/Year <u>8,760</u>	_	
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