

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY

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Permit Numbers 6048 and PSD-TX-74M1

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.

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
PS-1	Clay Crusher Baghouse	PM	0.32	1.35
		PM ₁₀	0.16	0.68
PS-2	Clay Belt Transfer Baghouse	PM	0.32	1.35
		PM ₁₀	0.16	0.68
PS-3	Raw Aeropol Cyclone	PM	2.17	9.10
		PM ₁₀	1.08	4.54
PS-4	Blending Silo Baghouse	PM	1.60	6.74
		PM ₁₀	0.80	3.37
PS-5	Rail Hopper Belt Baghouse	PM	1.04	4.35
		PM ₁₀	0.52	2.18
PS-6	Coal/Gypsum Belt Transfer Baghouse	PM	0.32	1.35
		PM ₁₀	0.16	0.68

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PS-7	Tri-Gate Diverter Baghouse	PM	0.32	1.35
		PM ₁₀	0.16	0.68
PS-8	Coal Belt Transfer Baghouse	PM	0.56	2.35
		PM ₁₀	0.28	1.18
PS-9	Coal/Coke Silos Baghouse	PM	0.48	2.02
		PM ₁₀	0.24	1.01
PS-10	Coal Mill Cyclone Baghouse	PM	4.49	18.87
		PM ₁₀	2.25	9.43
PS-11	Coal Bin Passive Bag Filter PM ₁₀	PM	0.03	0.13
		0.02	0.07	
PS-12	Coke Bin Passive Bag Filter PM ₁₀	PM	0.03	0.13
		0.02	0.07	
PS-13	Solid Fuel Pump Feeders Baghouse	PM	0.80	3.37
		PM ₁₀	0.40	1.68
PS-14	Kiln Feed Bucket Elevator Baghouse	PM	0.48	2.02
		PM ₁₀	0.24	1.01
PS-15	Kiln Feed Buffer Bin Baghouse	PM	0.80	3.37
		PM ₁₀	0.40	1.68
PS-16	Kiln No. 1 Main Baghouse	PM	12.43	41.76
		PM ₁₀	10.44	35.08
		VOC	13.10	44.00
		NO _x ****	744.00	2801.00
		SO ₂ ***	106.00	58.5
		CO**	772.00	1036.00
PS-19	Clinker Cooler Drag Chain	PM	1.11	4.68

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			<u>lb/hr</u>	<u>TPY</u>
	Baghouse	PM ₁₀	0.56	2.34
PS-20	Kiln Line 1 Clinker Cooler	PM	10.46	35.13
	Baghouse	PM ₁₀	7.95	26.70
PS-22	Clinker Silos Top	PM	2.23	9.36
	Transfers Baghouse	PM ₁₀	1.11	4.68
PS-23	Clinker Silo No. 1 Feeder	PM	0.15	0.65
	Baghouse	PM ₁₀	0.08	0.33
PS-24	Clinker Silo No. 2 Feeder	PM	0.17	0.75
	Baghouse	PM ₁₀	0.08	0.33
PS-25	Clinker Silo No. 3 North	PM	0.15	0.65
	Baghouse	PM ₁₀	0.08	0.33
PS-26	Clinker Silo No. 3 South	PM	0.15	0.65
	Baghouse	PM ₁₀	0.08	0.33
PS-27	Clinker Silo No. 4 Feeder	PM	0.15	0.65
	Baghouse	PM ₁₀	0.08	0.33
PS-28	Clinker Silo No. 5 Feeder	PM	0.15	0.65
	Baghouse	PM ₁₀	0.08	0.33
PS-29	Clinker Silo No. 6 North	PM	0.15	0.65
	Baghouse	PM ₁₀	0.08	0.33
PS-30	Clinker Silo No. 6 South	PM	0.15	0.65
	Baghouse	PM ₁₀	0.08	0.33
PS-31	Finish Mill Baghouse	PM	3.58	15.04
	No. 1	PM ₁₀	1.79	7.52

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			<u>lb/hr</u>	<u>TPY</u>
PS-32	Cement Cooler No. 1 Transfer Baghouse	PM	0.31	1.30
		PM ₁₀	0.15	0.65
PS-33	Finish Mill No. 1 Baghouse	PM	0.80	3.37
		PM ₁₀	0.40	1.68
PS-34	Finish Mill Baghouse No. 1	PM	3.58	15.04
		PM ₁₀	1.79	7.52
PS-35	Cement Cooler No. 2 Transfer Baghouse	PM	0.31	1.30
		PM ₁₀	0.15	0.65
PS-36	Finish Mill No. 2 Baghouse	PM	0.80	3.37
		PM ₁₀	0.40	1.68
PS-37	Cement Aeropols Baghouse	PM	0.39	1.66
		PM ₁₀	0.20	0.83
PS-38	South Aeropol Transfer Baghouse	PM	0.56	2.34
		PM ₁₀	0.28	1.17
PS-39	North Silo Distribution Baghouse	PM	0.39	1.66
		PM ₁₀	0.20	0.83
PS-40	North Aeropol Transfer Baghouse	PM	0.56	2.34
		PM ₁₀	0.28	1.17
PS-41	South Silo Distribution Baghouse	PM	0.39	1.66
		PM ₁₀	0.20	0.83
PS-42	Loadout Spout No. 1 Baghouse	PM	0.35	1.48
		PM ₁₀	0.18	0.74
PS-43	Loadout Spout No. 2	PM	0.35	1.48

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			<u>lb/hr</u>	<u>TPY</u>
	Baghouse	PM ₁₀	0.18	0.74
PS-44	Loadout Spout No. 3	PM	0.35	1.48
	Baghouse	PM ₁₀	0.18	0.74
PS-45	Regrind Bin Baghouse	PM	0.06	0.27
	PM ₁₀	0.03	0.14	
PS-46	Regrind Cyclone	PM	0.26	1.08
	Baghouse	PM ₁₀	0.13	0.54
PS-47	Emergency Hopper	PM	0.19	0.79
	Baghouse	PM ₁₀	0.10	0.40
PS-61	Raw Material 1st Transfer	PM	0.12	0.51
	Baghouse	PM ₁₀	0.06	0.25
PS-62	Raw Material 2nd Transfer	PM	0.12	0.51
	Baghouse	PM ₁₀	0.06	0.25
PS-63	Raw Material Final Transfer	PM	0.12	0.51
	Baghouse	PM ₁₀	0.06	0.25
PS-64	No. 2 Feeder Bins	PM	0.19	0.78
	Baghouse	PM ₁₀	0.09	0.39
PS-65	No. 1 Feeder Bins	PM	0.18	0.76
	Baghouse	PM ₁₀	0.09	0.38
PS-66	Raw Material Transfer	PM	0.12	0.50
	Baghouse	PM ₁₀	0.06	0.25
PS-67	Kiln No. 2 Main	PM	9.60	32.25
	Baghouse	PM ₁₀	8.06	27.09
	VOC	13.07	43.90	
	NO _x ****	326.67	1431.00	

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			lb/hr	TPY
		SO ₂ ***	106.00	58.0
	CO**	772.00	879.00	
PS-68	No. 2 Raw Meal Buffer Bin	PM	0.12	0.51
	Baghouse	PM ₁₀	0.06	0.25
PS-69	No. 2 Raw Meal Bucket	PM	0.29	1.21
	Elevator Baghouse	PM ₁₀	0.15	0.61
PS-70	Blending Silo No. 2	PM	0.29	1.21
	Elevator Baghouse	PM ₁₀	0.15	0.61
PS-71	Blending Silo No. 2 Dist. Box	PM	0.29	1.21
	Baghouse	PM ₁₀	0.15	0.61
PS-72	Kiln No. 2 Feed Bucket Elev.	PM	0.29	1.21
	Bottom Baghouse	PM ₁₀	0.15	0.61
PS-73	Kiln No. 2 Feed Bucket Elev.	PM	0.12	0.51
	Top Baghouse	PM ₁₀	0.06	0.25
PS-74	Kiln Line 2 Clinker Cooler	PM	7.92	26.61
	Baghouse	PM ₁₀	6.02	20.23
PS-75	Clinker Cooler No. 2 Hammer	PM	0.12	0.51
	Mill/Drag Chain	PM ₁₀	0.06	0.25
PS-76	Clinker Cooler No. 2 Transfer	PM	0.29	1.21
	Silo Baghouse	PM ₁₀	0.15	0.61
PS-77	Finish Mill No. 3 Feeder	PM	0.12	0.51
	Baghouse	PM ₁₀	0.06	0.25
PS-78	Finish Mill No. 3 Top Transfer	PM	0.12	0.51
	Baghouse	PM ₁₀	0.06	0.25
PS-79	Finish Mill No. 3	PM	5.22	21.93

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	Baghouse	PM ₁₀	2.61	10.97
PS-80	Mill No. 3 Cement Transfer	PM	0.19	0.78
	Baghouse	PM ₁₀	0.09	0.39
PS-81	Cement Silo Feed	PM	0.20	0.82
	Baghouse	PM ₁₀	0.10	0.41
PS-82	No. 4 Loadout Spout	PM	0.22	0.94
	Baghouse	PM ₁₀	0.11	0.47
PS-83	No. 5 Loadout Spout	PM	0.22	0.94
	Baghouse	PM ₁₀	0.11	0.47
PS-84	No. 2 Coke Belt Transfer	PM	0.12	0.51
	Baghouse	PM ₁₀	0.06	0.25
PS-85	No. 2 Coke Mill Bin 1	PM	0.12	0.51
	Baghouse	PM ₁₀	0.06	0.25
PS-86	No. 2 Coke Mill Bin 2	PM	0.12	0.51
	Baghouse	PM ₁₀	0.06	0.25
PS-87	No. 2 Coke Mill Weighfeeder	PM	0.12	0.51
	Baghouse	PM ₁₀	0.06	0.25
PS-88	No. 3 Coke Mill	PM	2.64	11.10
	Baghouse	PM ₁₀	1.32	5.55
PS-89	Kiln No. 2 Mail Burner Fuel	PM	0.12	0.51
	Bin Baghouse	PM ₁₀	0.06	0.25
PS-90	Kiln No. 2 Preheater Fuel	PM	0.12	0.51
	Bin Baghouse	PM ₁₀	0.06	0.25

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FC-1	Process Fugitive (4)	PM	-	1.35
		PM ₁₀	0.64	
FC-2	Stockpiles (4)	PM	-	10.00
		PM ₁₀	5.00	
PS-16/PS-67	Sitewide Limits	NO _x		2801.00
		SO ₂		116.5
		CO	1915.00	

- (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 - total suspended particulate (including PM₁₀)
PM₁₀ - particulate matter (PM) 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.
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
 - (4) Fugitive emissions are an estimate only.
- ** 24-hour average as determined by the continuous emission measurement system.
*** 3-hour average as determined by the continuous emission measurement system.
**** Compliance based on a 30-day rolling average.

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

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schedule:

_____ Hrs/day ____ Days/week ____ Weeks/year or 8,760 Hrs/year

Dated January 27, 2006