

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

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

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			lb/hr	TPY
	Baghouse	PM ₁₀	0.16	0.68
PS-7	Tri-Gate Diverter	PM	0.32	1.35
	Baghouse	PM ₁₀	0.16	0.68
PS-8	Coal Belt Transfer	PM	0.56	2.35
	Baghouse	PM ₁₀	0.28	1.18
PS-9	Coal/Coke Silos	PM	0.48	2.02
	Baghouse	PM ₁₀	0.24	1.01
PS-10	Coal Mill Cyclone	PM	4.49	18.87
	Baghouse	PM ₁₀	2.25	9.43
PS-11	Coal Bin Passive Bag	PM	0.03	0.13
	Filter PM ₁₀	0.02	0.07	
PS-12	Coke Bin Passive Bag	PM	0.03	0.13
	Filter PM ₁₀	0.02	0.07	
PS-13	Solid Fuel Pump Feeders	PM	0.80	3.37
	Baghouse	PM ₁₀	0.40	1.68
PS-14	Kiln Feed Bucket Elevator	PM	0.48	2.02
	Baghouse	PM ₁₀	0.24	1.01
PS-15	Kiln Feed Buffer Bin	PM	0.80	3.37
	Baghouse	PM ₁₀	0.40	1.68
PS-16	Kiln No. 1 Main	PM	12.43	41.76
	Baghouse	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	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
		HCl	0.52	2.25
PS-19	Clinker Cooler Drag Chain Baghouse	PM	1.11	4.68
		PM ₁₀	0.56	2.34
PS-20	Kiln Line 1 Clinker Cooler Baghouse	PM	10.46	35.13
		PM ₁₀	7.95	26.70
PS-22	Clinker Silos Top Transfers Baghouse	PM	2.23	9.36
		PM ₁₀	1.11	4.68
PS-23	Clinker Silo No. 1 Feeder Baghouse	PM	0.15	0.65
		PM ₁₀	0.08	0.33
PS-24	Clinker Silo No. 2 Feeder Baghouse	PM	0.17	0.75
		PM ₁₀	0.08	0.33
PS-25	Clinker Silo No. 3 North Baghouse	PM	0.15	0.65
		PM ₁₀	0.08	0.33
PS-26	Clinker Silo No. 3 South Baghouse	PM	0.15	0.65
		PM ₁₀	0.08	0.33
PS-27	Clinker Silo No. 4 Feeder Baghouse	PM	0.15	0.65
		PM ₁₀	0.08	0.33
PS-28	Clinker Silo No. 5 Feeder Baghouse	PM	0.15	0.65
		PM ₁₀	0.08	0.33
PS-29	Clinker Silo No. 6 North Baghouse	PM	0.15	0.65
		PM ₁₀	0.08	0.33
PS-30	Clinker Silo No. 6 South Baghouse	PM	0.15	0.65
		PM ₁₀	0.08	0.33
PS-31	Finish Mill Baghouse	PM	3.58	15.04

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
	No. 1	PM ₁₀	1.79	7.52
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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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
	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-48	Silo 14 Alumina Baghouse	PM	0.21	0.18
		PM ₁₀ 0.10	0.09	
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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
PS-67	Kiln No. 2 Main Baghouse	PM	9.60	32.25
		PM ₁₀	8.06	27.09
		VOC	13.07	43.90
		NO _x ****	326.67	1431.00
		SO ₂ ***	106.00	58.0
		CO**	772.00	879.00
		HCl	0.52	2.25
PS-68	No. 2 Raw Meal Buffer Bin Baghouse	PM	0.12	0.51
		PM ₁₀	0.06	0.25
PS-69	No. 2 Raw Meal Bucket Elevator Baghouse	PM	0.29	1.21
		PM ₁₀	0.15	0.61
PS-70	Blending Silo No. 2 Elevator Baghouse	PM	0.29	1.21
		PM ₁₀	0.15	0.61
PS-71	Blending Silo No. 2 Dist. Box Baghouse	PM	0.29	1.21
		PM ₁₀	0.15	0.61
PS-72	Kiln No. 2 Feed Bucket Elev. Bottom Baghouse	PM	0.29	1.21
		PM ₁₀	0.15	0.61
PS-73	Kiln No. 2 Feed Bucket Elev. Top Baghouse	PM	0.12	0.51
		PM ₁₀	0.06	0.25
PS-74	Kiln Line 2 Clinker Cooler Baghouse	PM	7.92	26.61
		PM ₁₀	6.02	20.23
PS-75	Clinker Cooler No. 2 Hammer Mill/Drag Chain	PM	0.12	0.51
		PM ₁₀	0.06	0.25
PS-76	Clinker Cooler No. 2 Transfer Silo Baghouse	PM	0.29	1.21
		PM ₁₀	0.15	0.61

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
PS-77	Finish Mill No. 3 Feeder Baghouse	PM	0.12	0.51
		PM ₁₀	0.06	0.25
PS-78	Finish Mill No. 3 Top Transfer Baghouse	PM	0.12	0.51
		PM ₁₀	0.06	0.25
PS-79	Finish Mill No. 3 Baghouse	PM	5.22	21.93
		PM ₁₀	2.61	10.97
PS-80	Mill No. 3 Cement Transfer Baghouse	PM	0.19	0.78
		PM ₁₀	0.09	0.39
PS-81	Cement Silo Feed Baghouse	PM	0.20	0.82
		PM ₁₀	0.10	0.41
PS-82	No. 4 Loadout Spout Baghouse	PM	0.22	0.94
		PM ₁₀	0.11	0.47
PS-83	No. 5 Loadout Spout Baghouse	PM	0.22	0.94
		PM ₁₀	0.11	0.47
PS-84	No. 2 Coke Belt Transfer Baghouse	PM	0.12	0.51
		PM ₁₀	0.06	0.25
PS-85	No. 2 Coke Mill Bin 1 Baghouse	PM	0.12	0.51
		PM ₁₀	0.06	0.25
PS-86	No. 2 Coke Mill Bin 2 Baghouse	PM	0.12	0.51
		PM ₁₀	0.06	0.25
PS-87	No. 2 Coke Mill Weighfeeder Baghouse	PM	0.12	0.51
		PM ₁₀	0.06	0.25

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			lb/hr	TPY
PS-88	No. 3 Coke Mill Baghouse	PM	2.64	11.10
		PM ₁₀	1.32	5.55
PS-89	Kiln No. 2 Mail Burner Fuel Bin Baghouse	PM	0.12	0.51
		PM ₁₀	0.06	0.25
PS-90	Kiln No. 2 Preheater Fuel Bin Baghouse	PM	0.12	0.51
		PM ₁₀	0.06	0.25
FC-1	Process Fugitive (4)	PM	-	1.35
		PM ₁₀ -	0.64	
FC-2	Stockpiles (4) PM ₁₀	PM	-	10.00
		-	5.00	
MTL	Material Handling (4)(5)	PM ₁₀	6.07	10.30
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

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			<u>lb/hr</u>	<u>TPY</u>

HCl - hydrochloric acid

(4) Fugitive emissions are an estimate only.

(5) Material handling consists of EPN's CGS-12, CGS-13, SD-1, SD-2, SD-6, SD-7, and SD-8.

** 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 schedule:

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

Dated October 30, 2006