

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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.

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
PS-1	Clay Crusher Baghouse	PM	0.34	1.50
		PM <sub>10</sub>	0.17	0.75
PS-2	Clay Belt Transfer Baghouse	PM	0.34	1.50
		PM <sub>10</sub>	0.17	0.75
PS-3	Raw Aeropol Cyclone	PM	2.31	10.14
		PM <sub>10</sub>	1.16	5.07
PS-4	Blending Silo Baghouse	PM	1.71	7.51
		PM <sub>10</sub>	0.86	3.75
PS-5	Rail Hopper Belt Baghouse	PM	1.11	4.88
		PM <sub>10</sub>	0.56	2.44
PS-6	Coal/Gypsum Belt Transfer 1.50 Baghouse	PM		0.34
		PM <sub>10</sub>	0.17	0.75
PS-7	Tri-Gate Diverter Baghouse	PM	0.34	1.50
		PM <sub>10</sub>	0.17	0.75
PS-8	Coal Belt Transfer Baghouse	PM	0.60	2.63
		PM <sub>10</sub>	0.30	1.31
PS-9	Coal/Coke Silos Baghouse	PM	0.51	2.25
		PM <sub>10</sub>	0.26	1.13
PS-10	Coal Mill Cyclone	PM	4.80	21.02

Baghouse

PM<sub>10</sub>

2.40

10.51

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
PS-11	Coal Bin Passive Bag Filter	PM	0.03	0.15
		PM <sub>10</sub>	0.02	0.08
PS-12	Coke Bin Passive Bag Filter	PM	0.03	0.15
		PM <sub>10</sub>	0.02	0.08
PS-13	Solid Fuel Pump Feeders 3.75 Baghouse	PM		0.86
		PM <sub>10</sub>	0.43	1.88
PS-14	Kiln Feed Bucket Elevator 2.25 Baghouse	PM		0.51
		PM <sub>10</sub>	0.26	1.13
PS-15	Kiln Feed Buffer Bin Baghouse	PM	0.86	3.75
		PM <sub>10</sub>	0.43	1.88
PS-16	Kiln ESP Stack	PM	34.00	140.00
		PM <sub>10</sub>	29.00	117.00
		VOC	20.00	67.00
		NO <sub>x</sub> ****	744.00	2801.00
		SO <sub>2</sub> ***	106.00	135.00
		CO**	772.00	1825.00
PS-17	CKD Bin Baghouse	PM	0.10	0.45
		PM <sub>10</sub>	0.05	0.23
PS-18	CKD Loadout Spout Baghouse	PM	0.30	1.31
		PM <sub>10</sub>	0.15	0.66
PS-19	Clinker Cooler Drag Chain 5.26 Baghouse	PM		1.20
		PM <sub>10</sub>	0.60	2.63

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
PS-20	Clinker Cooler Stack	PM	16.00	64.00
	PM <sub>10</sub>	12.00	49.00	
PS-21	Clinker Loadout Bin	PM	0.60	2.63
	Baghouse	PM <sub>10</sub>	0.30	1.31
PS-22	Clinker Silos Top	PM	2.40	10.51
	Transfers Baghouse	PM <sub>10</sub>	1.20	5.26
PS-23	Clinker Silo No. 1 Feeder	PM		0.17
	0.75			
	Baghouse	PM <sub>10</sub>	0.09	0.38
PS-24	Clinker Silo No. 2 Feeder	PM		0.17
	0.75			
	Baghouse	PM <sub>10</sub>	0.09	0.38
PS-25	Clinker Silo No. 3 North	PM		0.17
	0.75			
	Feeder Baghouse	PM <sub>10</sub>	0.09	0.38
PS-26	Clinker Silo No. 3 South	PM		0.17
	0.75			
	Feeder Baghouse	PM <sub>10</sub>	0.09	0.38
PS-27	Clinker Silo No. 4 Feeder	PM		0.17
	0.75			
	Baghouse	PM <sub>10</sub>	0.09	0.38
PS-28	Clinker Silo No. 5 Feeder	PM		0.17
	0.75			
	Baghouse	PM <sub>10</sub>	0.09	0.38

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
PS-29	Clinker Silo No. 6 North 0.75		PM	0.17
	Feeder Baghouse	PM <sub>10</sub>	0.09	0.38
PS-30	Clinker Silo No. 6 South 0.75		PM	0.17
	Feeder Baghouse	PM <sub>10</sub>	0.09	0.38
PS-31	Finish Mill Baghouse No. 1	PM PM <sub>10</sub>	7.58 3.79	33.19 16.59
PS-32	Cement Cooler No. 1 Transfer Baghouse	PM PM <sub>10</sub>	0.34 0.17	1.50 0.75
PS-33	Finish Mill No. 1 Separator Baghouse	PM PM <sub>10</sub>	1.71 0.86	7.51 3.75
PS-34	Finish Mill Baghouse No. 2	PM PM <sub>10</sub>	7.58 3.79	33.19 16.59
PS-35	Cement Cooler No. 2 Transfer Baghouse	PM PM <sub>10</sub>	0.34 0.17	1.50 0.75
PS-36	Finish Mill No. 2 Separator Baghouse	PM PM <sub>10</sub>	1.71 0.86	7.51 3.75
PS-37	Cement Aeropols Baghouse	PM PM <sub>10</sub>	0.86 0.43	3.75 1.88
PS-38	South Aeroport Transfer 5.26 Baghouse		PM	1.20
		PM <sub>10</sub>	0.60	2.63
PS-39	North Silo Distribution		PM	0.86

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
	3.75 System Baghouse	PM <sub>10</sub>	0.43	1.88
PS-40	North Aeropol Transfer	PM		1.20
	5.26 Baghouse	PM <sub>10</sub>	0.60	2.63
PS-41	South Silo Distribution	PM		0.86
	3.75 System Baghouse	PM <sub>10</sub>	0.43	1.88
PS-42	Loadout Spout No. 1	PM	0.75	3.30
	Baghouse	PM <sub>10</sub>	0.38	1.65
PS-43	Loadout Spout No. 2	PM	0.75	3.30
	Baghouse	PM <sub>10</sub>	0.38	1.65
PS-44	Loadout Spout No. 3	PM	0.75	3.30
	Baghouse	PM <sub>10</sub>	0.38	1.65
PS-45	Regrind Bin Baghouse	PM	0.07	0.31
	PM <sub>10</sub>	0.04	0.15	
PS-46	Regrind Cyclone	PM	0.28	1.24
	Baghouse	PM <sub>10</sub>	0.14	0.62
PS-47	Emergency Hopper	PM	0.21	0.90
	Baghouse	PM <sub>10</sub>	0.10	0.45
FC-1	Process Fugitive (4)	PM	-	61.00
	PM <sub>10</sub>	-	30.00	
FC-2	Stockpiles (4)	PM	-	10.00
	PM <sub>10</sub>	-	5.00	

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AIR CONTAMINANTS DATA

Emission * <u>Point No. (1)</u>	Source <u>Name (2)</u>	Air Contaminant <u>Name (3)</u>	<u>Emission Rates</u> <u>lb/hr TPY</u>
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(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 PM<sub>10</sub>)

PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter.

Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.

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

NO<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - 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 hourly, 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 July 28, 2003