

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 6048 and PSDTX74M1

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emissions 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 Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA	
			Emission Rates *	
			lb/hr	TPY
PS-1	Clay Crusher Baghouse	PM	0.32	1.35
		PM <sub>10</sub>	0.16	0.68
PS-2	Clay Belt Transfer Baghouse	PM	0.32	1.35
		PM <sub>10</sub>	0.16	0.68
PS-3	Raw Aeropol Cyclone	PM	2.17	9.10
		PM <sub>10</sub>	1.08	4.54
PS-4	Blending Silo Baghouse	PM	1.60	6.74
		PM <sub>10</sub>	0.80	3.37
PS-5	Rail Hopper Belt Baghouse	PM	1.04	4.35
		PM <sub>10</sub>	0.52	2.18
PS-6	Coal/Gypsum Belt Transfer Baghouse	PM	0.32	1.35
		PM <sub>10</sub>	0.16	0.68
PS-7	Tri-Gate Diverter Baghouse	PM	0.32	1.35
		PM <sub>10</sub>	0.16	0.68
PS-8	Coal Belt Transfer Baghouse	PM	0.56	2.36
		PM <sub>10</sub>	0.28	1.18
PS-9	Coal/Coke Silos Baghouse	PM	0.48	2.02
		PM <sub>10</sub>	0.24	1.01
PS-10	Coal Mill Cyclone Baghouse	PM	4.49	18.87
		PM <sub>10</sub>	2.25	9.43
PS-11	Coal Bin Passive Bag Filter	PM	0.03	0.13
		PM <sub>10</sub>	0.02	0.07
PS-12	Coke Bin Passive Bag	PM	0.03	0.13

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			lb/hr	TPY
	Filter	PM <sub>10</sub>	0.02	0.07
PS-13	Solid Fuel Pump Feeders Baghouse	PM	0.80	3.37
		PM <sub>10</sub>	0.40	1.68
PS-14	Kiln Feed Bucket Elevator Baghouse	PM	0.48	2.02
		PM <sub>10</sub>	0.24	1.01
PS-15	Kiln Feed Buffer Bin Baghouse	PM	0.80	3.37
		PM <sub>10</sub>	0.40	1.68
PS-16	Kiln No. 1 Main Baghouse	PM (FH + BH)	22.36	84.10
		PM <sub>10</sub> (FH + BH)	20.49	77.83
		VOC	13.10	44.00
		NO <sub>x</sub> ****	744.00	(6)
		SO <sub>2</sub> ***	106.00	(6)
		CO**	772.00	(6)
		HCl	2.11	8.86
		NH <sub>3</sub>	1.31	5.5
PS-16A	Kiln 1 Main Bucket Elevator Baghouse	PM	0.04	0.17
		PM <sub>10</sub>	0.02	0.08
PS-19	Clinker Cooler Drag Chain Baghouse	PM	1.11	4.68
		PM <sub>10</sub>	0.56	2.34
PS-20	Kiln Line 1 Clinker Cooler Baghouse	PM	7.76	26.08
		PM <sub>10</sub>	5.90	19.82
PS-21	Clinker Loadout Bin Baghouse	PM	0.60	2.63
		PM <sub>10</sub>	0.30	1.31
PS-22	Clinker Silos Top Transfers Baghouse	PM	2.23	9.36
		PM <sub>10</sub>	1.11	4.68
PS-23	Clinker Silo No. 1 Feeder Baghouse	PM	0.15	0.65
		PM <sub>10</sub>	0.08	0.33

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA	
			Emission Rates *	
			lb/hr	TPY
PS-24	Clinker Silo No. 2 Feeder Baghouse	PM	0.17	0.75
		PM <sub>10</sub>	0.08	0.33
PS-25	Clinker Silo No. 3 North Baghouse	PM	0.15	0.65
		PM <sub>10</sub>	0.08	0.33
PS-26	Clinker Silo No. 3 South Baghouse	PM	0.15	0.65
		PM <sub>10</sub>	0.08	0.33
PS-27	Clinker Silo No. 4 Feeder Baghouse	PM	0.15	0.65
		PM <sub>10</sub>	0.08	0.33
PS-28	Clinker Silo No. 5 Feeder Baghouse	PM	0.15	0.65
		PM <sub>10</sub>	0.08	0.33
PS-29	Clinker Silo No. 6 North Baghouse	PM	0.15	0.65
		PM <sub>10</sub>	0.08	0.33
PS-30	Clinker Silo No. 6 South Baghouse	PM	0.15	0.65
		PM <sub>10</sub>	0.08	0.33
PS-31	Finish Mill Baghouse No. 1	PM	3.58	15.05
		PM <sub>10</sub>	1.79	7.52
PS-32	Cement Cooler No. 1 Transfer Baghouse	PM	0.31	1.30
		PM <sub>10</sub>	0.15	0.65
PS-33	Finish Mill No. 1 Separator Baghouse	PM	0.80	3.37
		PM <sub>10</sub>	0.40	1.68
PS-34	Finish Mill Baghouse No. 2	PM	3.58	15.05
		PM <sub>10</sub>	1.79	7.52
PS-35	Cement Cooler No. 2 Transfer Baghouse	PM	0.31	1.30
		PM <sub>10</sub>	0.15	0.65
PS-36	Finish Mill No. 2	PM	0.80	3.37

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA Emission Rates *	
			lb/hr	TPY
	Separator Baghouse	PM <sub>10</sub>	0.40	1.68
PS-37	Cement Aeropols Baghouse	PM	0.79	3.31
		PM <sub>10</sub>	0.39	1.66
PS-38	South Aeropol Transfer Baghouse	PM	1.11	4.68
		PM <sub>10</sub>	0.56	2.34
PS-39	North Silo Distribution Baghouse	PM	0.79	3.31
		PM <sub>10</sub>	0.20	0.83
PS-40	North Aeropol Transfer Baghouse	PM	1.11	4.68
		PM <sub>10</sub>	0.56	2.34
PS-41	South Silo Distribution Baghouse	PM	0.79	3.31
		PM <sub>10</sub>	0.39	1.66
PS-42	Loadout Spout No. 1 Baghouse	PM	0.70	2.95
		PM <sub>10</sub>	0.35	1.48
PS-43	Loadout Spout No. 2 Baghouse	PM	0.70	2.95
		PM <sub>10</sub>	0.35	1.48
PS-44	Loadout Spout No. 3 Baghouse	PM	0.70	2.95
		PM <sub>10</sub>	0.35	1.48
PS-45	Regrind Bin Baghouse	PM	0.07	0.27
		PM <sub>10</sub>	0.03	0.14
PS-46	Regrind Cyclone Baghouse	PM	0.26	1.08
		PM <sub>10</sub>	0.13	0.54
PS-47	Silo 13 LKD Baghouse	PM	0.19	0.79
		PM <sub>10</sub>	0.10	0.40
PS-48	Silo 14 Alumina Baghouse	PM	0.21	0.18
		PM <sub>10</sub>	0.10	0.09
PS-49	Slag Silo Filter Vent	PM	0.15	0.68
		PM <sub>10</sub>	0.08	0.34

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA Emission Rates *	
			lb/hr	TPY
PS-50	North Slag Feeder Filter Vent	PM	0.15	0.68
		PM <sub>10</sub>	0.08	0.34
PS-51	South Slag Feeder Filter Vent	PM	0.15	0.68
		PM <sub>10</sub>	0.08	0.34
PS-61	Transfer Tower Clay Baghouse	PM	0.005	0.02
		PM <sub>10</sub>	0.002	0.01
PS-62	Mill Scale Bin Baghouse	PM	0.01	0.03
		PM <sub>10</sub>	0.003	0.01
PS-63	Bottom Ash Bin Baghouse	PM	0.01	0.03
		PM <sub>10</sub>	0.003	0.01
PS-64	Limestone Bin Baghouse	PM	0.02	0.08
		PM <sub>10</sub>	0.01	0.03
PS-65	Weight Feeder Mill Scale Baghouse	PM	0.01	0.05
		PM <sub>10</sub>	0.004	0.02
PS-66	Weight Feeder Bottom Ash Baghouse	PM	0.01	0.05
		PM <sub>10</sub>	0.004	0.02
PS-67	Weight Feeder Limestone Baghouse	PM	0.01	0.05
		PM <sub>10</sub>	0.004	0.02
PS-68	Weight Feeder Clay Baghouse	PM	0.01	0.05
		PM <sub>10</sub>	0.004	0.02
PS-69	Additives Belt Conveyor Baghouse	PM	0.01	0.05
		PM <sub>10</sub>	0.004	0.02
PS-70	Raw Material Rejected Baghouse	PM	0.004	0.02
		PM <sub>10</sub>	0.001	0.01
PS-71	Raw Material Transfer Baghouse	PM	0.01	0.05
		PM <sub>10</sub>	0.004	0.02

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA Emission Rates *	
			lb/hr	TPY
PS-72	Feed to Blending Silo Baghouse	PM	0.01	0.05
		PM <sub>10</sub>	0.004	0.02
PS-73	Blending Silo #2 Baghouse	PM	0.01	0.05
		PM <sub>10</sub>	0.004	0.02
PS-74	K-2 Feed Buffer Bin Baghouse	PM	0.01	0.04
		PM <sub>10</sub>	0.004	0.02
PS-75	K-2 Feed Bucket Elevator Bottom Baghouse	PM	0.01	0.03
		PM <sub>10</sub>	0.003	0.01
PS-76	K-2 Feed Bucket Elevator Top Baghouse	PM	0.01	0.04
		PM <sub>10</sub>	0.004	0.02
PS-77	Kiln No. 2 Main Baghouse	PM (FH + BH)	24.61	92.64
		PM <sub>10</sub> (FH + BH)	22.57	85.78
		VOC	13.07	43.90
		NO <sub>x</sub> ****	744.00	(6)
		SO <sub>2</sub> ***	106.00	(6)
		CO**	772.00	(6)
		HCl	2.34	9.81
		NH <sub>3</sub>	1.43	6.0
PS-78	Airlide to Buffer Bin Baghouse	PM	0.001	0.005
		PM <sub>10</sub>	0.0004	0.002
PS-79	Buffer Bin Baghouse	PM	0.001	0.004
		PM <sub>10</sub>	0.0004	0.002
PS-80	Kiln Line 2 Clinker Cooler Baghouse	PM	10.36	34.81
		PM <sub>10</sub>	7.87	26.45
PS-81	Pan Conveyor No. 2 Transfer Baghouse	PM	0.01	0.03
		PM <sub>10</sub>	0.003	0.01
PS-82	Pan Conveyor Tower Transfer Baghouse	PM	0.01	0.03
		PM <sub>10</sub>	0.003	0.01
PS-83	Clinker Silo	PM	0.01	0.03

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA Emission Rates *	
			lb/hr	TPY
	Baghouse	PM <sub>10</sub>	0.003	0.01
PS-84	Finish Mill No. 3 Weigh Feeder Silo 1 Baghouse	PM	0.01	0.03
		PM <sub>10</sub>	0.002	0.01
PS-85	Finish Mill No. 3 Weigh Feeder Silo 2 Baghouse	PM	0.01	0.03
		PM <sub>10</sub>	0.002	0.01
PS-86	Lime Dust Bin Baghouse	PM	0.001	0.004
		PM <sub>10</sub>	0.003	0.001
PS-87	Finish Mill Weigh Feeder Gypsum Baghouse	PM	0.01	0.03
		PM <sub>10</sub>	0.002	0.01
PS-88	Bucket Elevator Feed FM 3 Baghouse	PM	0.01	0.03
		PM <sub>10</sub>	0.002	0.01
PS-89	Belt Feed Finish Mill 3 Baghouse	PM	0.003	0.01
		PM <sub>10</sub>	0.001	0.01
PS-90	Finish Mill No. 3 Baghouse	PM	1.96	8.25
		PM <sub>10</sub>	0.98	4.12
PS-91	Mill No. 3 Airslide Transfer Baghouse	PM	0.01	0.04
		PM <sub>10</sub>	0.004	0.02
PS-92	Mill No. 3 Coolers Cement Transfer Baghouse	PM	0.01	0.03
		PM <sub>10</sub>	0.003	0.01
PS-93	Gral Bucket Elevator Top Baghouse	PM	0.01	0.03
		PM <sub>10</sub>	0.003	0.01
PS-94	Transfer Bucket Elevator Top Baghouse	PM	0.01	0.04
		PM <sub>10</sub>	0.003	0.01
PS-95	Vent Airslide to Cement Silos Baghouse	PM	0.01	0.04
		PM <sub>10</sub>	0.004	0.02
PS-96	Cement Silo Baghouse	PM	0.01	0.04
		PM <sub>10</sub>	0.004	0.02

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	AIR CONTAMINANTS DATA Emission Rates *	
			lb/hr	TPY
PS-97	Cement Buffer Bin Baghouse	PM	0.03	0.13
		PM <sub>10</sub>	0.01	0.05
PS-98	Vent Airslide to Spout #1 Baghouse	PM	0.02	0.08
		PM <sub>10</sub>	0.01	0.03
PS-99	No. 1 Loadout Spout Baghouse	PM	0.02	0.08
		PM <sub>10</sub>	0.01	0.03
PS-100	Vent Airslide to Spout #2 Baghouse	PM	0.02	0.08
		PM <sub>10</sub>	0.01	0.03
PS-101	No. 2 Loadout Spout Baghouse	PM	0.02	0.08
		PM <sub>10</sub>	0.01	0.03
PS-102	No. 1 Pet Coke Transfer Baghouse	PM	0.01	0.04
		PM <sub>10</sub>	0.003	0.01
PS-103	No. 2 Coke Belt Transfer Baghouse	PM	0.01	0.04
		PM <sub>10</sub>	0.003	0.01
PS-104	No. 2 Coke Mill Bin 1 Baghouse	PM	0.003	0.01
		PM <sub>10</sub>	0.001	0.005
PS-105	No. 2 Coke Mill Baghouse	PM	4.96	20.82
		PM <sub>10</sub>	2.48	10.41
PS-106	Finish Coke No. 2 Bin 1 Baghouse	PM	0.001	0.004
		PM <sub>10</sub>	0.0003	0.001
PS-107	Finish Coke No. 2 Bin 2 Baghouse	PM	0.001	0.004
		PM <sub>10</sub>	0.0003	0.001
PS-108	Limestone Transfer Point Baghouse	PM	0.02	0.08
		PM <sub>10</sub>	0.007	0.03
PS-109	Feed Slag to Finish Mill Baghouse	PM	0.01	0.03
		PM <sub>10</sub>	0.002	0.01



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AIR CONTAMINANTS DATA				
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
FUGITIVE EMISSIONS: MATERIAL DROPS TO STATIONARY SOURCES				
FC-1	Process Fugitive (4)	PM	-	1.35
		PM <sub>10</sub>	-	0.64
FUGITIVE EMISSIONS FROM MATERIAL STOCKPILES: MATERIAL DROPS AND WIND EROSION				
FC-2	Stockpiles (4)	PM	-	7.86
		PM <sub>10</sub>	-	3.93
MTL	Material Handling (4) (5)	PM/PM <sub>10</sub>	7.39	10.31
PS-16 + PS-77	Kiln 1 and Kiln 2 Combined Limits (6)	NO <sub>x</sub>	-	2,801
		SO <sub>2</sub>	-	116.5
		CO	-	1,915

- (1) Emission point identification - either specific equipment designation or emission point number (EPN) 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 (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<sub>x</sub> - total oxides of nitrogen
  - SO<sub>2</sub> - sulfur dioxide
  - CO - carbon monoxide
  - HCl - hydrochloric acid
  - NH<sub>3</sub> - ammonia
- (4) Fugitive emissions are an estimate only.
- (5) Material handling consists of EPNs BA-5, CGS-12, CGS-13, RS-21, RS-22, SD-2, SD-6, SD-7, SD-8, SD-13, SD-14, and SD-15.
- (6) Kiln 1 and Kiln 2 combined emission limits for NO<sub>x</sub>, SO<sub>2</sub>, CO.

\* 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 8,400 Hrs/year

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- \*\* 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.

Dated: February 26, 2010