

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 6758/PSD-TX-145M1

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 Rates *	Source Point No. (1)	Air Contaminant Name (2)	Emission Name (3)	
lbs/hr	TPY			
<u>CLINKER PRODUCTION</u>				
Q-1	Quarrying (5)	PM	14.61	13.49
		PM <sub>10</sub>	8.64	9.59
B-06	Crushing Operation Baghouse Stack	PM/PM <sub>10</sub>	0.60	2.52
RMS	Transport to Raw Material Storage (5)	PM	5.58	4.62
	Bins/RMS	PM <sub>10</sub>	1.33	1.21
D-28	Additives Elevator Baghouse	PM/PM <sub>10</sub>	0.94	3.96
K-19	Grinding/Preheating/Kiln	PM/PM <sub>10</sub> (filterable)	32.24	135.41
		PM/PM <sub>10</sub> (condensable)	4.09	17.19
		PM/PM <sub>10</sub> (total)	36.33	152.59
		NO <sub>x</sub>	660.0	2772.0
		SO <sub>2</sub>	20.00	84.0
		VOC	15.00	63.00
		CO	460.00	1932.0
		HCl	2.00	8.76
		H <sub>2</sub> SO <sub>4</sub>	2.00	8.76
F-11	Blending Silo Baghouse	PM/PM <sub>10</sub>	1.03	4.32
F-12	Return Elevator Baghouse	PM/PM <sub>10</sub>	0.26	1.08
H-06	Aeropol Feed Baghouse	PM/PM <sub>10</sub>	0.17	0.72
H-07	Elevator Baghouse	PM/PM <sub>10</sub>	0.21	0.86

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lbs/hr</u>	
<u>TPY</u>				
L-12	Clinker Elevator	PM/PM <sub>10</sub> Baghouse Stack	0.45	1.91
L-13	Hot Clinker	PM/PM <sub>10</sub> Baghouse Stack	0.43	1.80
L-14	Dome I Baghouse Stack	PM/PM <sub>10</sub>	0.45	1.89
L-15	Dome I Bottom Baghouse Stack	PM/PM <sub>10</sub>	0.34	1.44
L-16	Truck Loadout Silo Baghouse Stack	PM/PM <sub>10</sub>	1.03	4.32
L-18	Clinker Dome 2 Bottom Baghouse Stack	PM/PM <sub>10</sub>	0.21	0.86
L-19	Dome 2 Baghouse Stack	PM/PM <sub>10</sub>	0.12	0.50
<u>FINISH MILLING</u>				
M-02	Additive Belt Baghouse Stack 1.04	PM/PM <sub>10</sub>	0.25	
M-04	Additive Belt Baghouse Stack 0.63	PM/PM <sub>10</sub>	0.15	
M-06	Reversible Belt/Gyp Bin Baghouse Stack	PM/PM <sub>10</sub>	0.25	1.04
M-09	Clinker/Limestone Bins Baghouse Stack	PM/PM <sub>10</sub>	0.30	1.26
M-10	Special Clinker Bin	PM/PM <sub>10</sub>	0.21	0.86

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lbs/hr</u>	
<u>TPY</u>				
	Baghouse Stack			
M-28	Clinker Feeder Belt Baghouse Stack	PM/PM <sub>10</sub>	0.33	1.40
M-29	Clinker Feeder Belt Baghouse Stack	PM/PM <sub>10</sub>	0.25	1.04
M-32	Special Clinker Feeder Belt Baghouse	PM/PM <sub>10</sub>	0.25	1.04
M-33	Special Clinker Feeder Belt Baghouse	PM/PM <sub>10</sub>	0.25	1.04
N-09	FM No. 1 Elevator Baghouse Stack	PM/PM <sub>10</sub>	0.15	0.63
N-13	FM No. 1 Separator Baghouse Stack	PM PM <sub>10</sub>	2.52 1.26	10.58 5.29
N-20	Flyash Bins Baghouse Stack	PM/PM <sub>10</sub>	0.17	0.72
N-22	FM No. 1 Airslides Baghouse Stack	PM PM <sub>10</sub>	0.72 0.36	3.02 1.51
N-59	FM No. 2 Elevator Baghouse Stack	PM/PM <sub>10</sub>	0.15	0.63
N-63	FM No. 2 Separator Baghouse Stack	PM PM <sub>10</sub>	2.52 1.26	10.58 5.29
N-69	FM No. 2 Airslides Baghouse Stack	PM PM <sub>10</sub>	0.72 0.36	3.02 1.51

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Emission Rates *	Source	Air Contaminant	<u>Emission</u>
Point No. (1)	Name (2)	Name (3)	lbs/hr
TPY			
N-94a	FM No.1 Belt Baghouse Stack 0.63	PM/PM <sub>10</sub>	0.15
N-94b	FM No. 1 Belt Baghouse Stack 0.63	PM/PM <sub>10</sub>	0.15
N-95	FM No. 2 Belt Baghouse Stack 1.04	PM/PM <sub>10</sub>	0.25
N-96	Silos 12-15 Baghouse Stack	PM/PM <sub>10</sub>	0.15
N-97	Silos 4-7 Baghouse Stack	PM/PM <sub>10</sub>	0.15
N-98	Silo 2 Baghouse Stack	PM/PM <sub>10</sub>	0.15
N-99	Silo 1 Baghouse Stack	PM/PM <sub>10</sub>	0.15
N-100	Silo 3 Baghouse Stack	PM/PM <sub>10</sub>	0.15
N-101	Silos 8-11 Baghouse Stack	PM/PM <sub>10</sub>	0.15

LOADOUT AND BAGGING OPERATION

R-08	Silo 1 Loadout Baghouse Stack 0.63	PM/PM <sub>10</sub>	0.15
R-18	Silo 2 Loadout Baghouse Stack 0.63	PM/PM <sub>10</sub>	0.15
R-28	Silo 3 Loadout Baghouse Stack 0.63	PM/PM <sub>10</sub>	0.15
R-38	Silos 8-11 Loadout Baghouse Stack	PM/PM <sub>10</sub>	0.15

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Point No. (1)	Name (2)	Name (3)	lbs/hr	
TPY				
R-48	Silos 4-7 Loadout Baghouse Stack	PM/PM <sub>10</sub>	0.15	0.63
R-58	Silos 12-15 Loadout Baghouse Stack	PM/PM <sub>10</sub>	0.15	0.63
R-70	Rotary Bagging Elevator Baghouse Stack	PM/PM <sub>10</sub>	1.26	5.29
R-90	Manned Bagger Elevator Baghouse Stack	PM/PM <sub>10</sub>	1.26	5.29
F-1	Material Handling (5)	PM	5.02	1.98
		PM <sub>10</sub>	2.37	0.94

COAL AND COKE OPERATION

S-01	Coal/Coke Stockpiles (5)	PM	0.60	1.71
		PM <sub>10</sub>	0.28	0.81
S-98	Coal and Coke Road Hopper (5)	PM	1.80	7.90
		PM <sub>10</sub>	0.90	4.00
S-44	Coal and Coke Unloading Baghouse Stack	PM/PM <sub>10</sub>	0.64	2.70
S-30	Coal Mill Baghouse	PM/PM <sub>10</sub>	2.14	9.00
S-56	Coal Bin Baghouse	PM/PM <sub>10</sub>	0.60	2.52

- (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<sub>10</sub>

PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed,  
shall be assumed that no particulate matter greater than 10 microns is emitted.  
NO<sub>x</sub> - total oxides of nitrogen  
SO<sub>2</sub> - sulfur dioxide  
VOC - volatile organic compounds as defined in 30 Texas administrative Code Section 101.1.  
CO - carbon monoxide  
HCl - hydrogen chloride  
H<sub>2</sub>SO<sub>4</sub> - sulfuric acid

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- (4) Emissions from K-19 must comply with New Source Performance Standard, Subpart F.
- (5) Fugitive emissions are an estimate only.

\*Emission rates are based on a maximum dry kiln feed rate of 200 tons per hour and 1,680,000 tons per year of raw feed with the following maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 50 or Hrs/year 8,400

Dated \_\_\_\_\_