

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 6758 and PSDTX145M1

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, sources, and related activities. 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	
				lbs/hour	TPY (4)
CLINKER PRODUCTION					
Q-1 Group (5)	Quarrying (6)	PM		14.61	13.49
		PM ₁₀		8.64	9.59
B-06	Crushing Operation Baghouse Stack	PM/PM ₁₀		0.60	2.52
RMS Group (7)	Transport to Raw Material Storage Bins/RMS (6)	PM		5.58	4.62
		PM ₁₀		1.33	1.21
D-28	Additives Elevator Baghouse	PM/PM ₁₀		0.94	3.96
K-19	Grinding/Preheating/Kiln ESP Stack (8)	PM/PM ₁₀ (filterable)		32.24	135.41
		PM/PM ₁₀ (condensible)		4.09	17.19
		PM/PM ₁₀ (total)		36.33	152.59
		NO _x		660.0	2772.0
		SO ₂		20.00	84.0
		VOC		15.00	63.00
		CO		460.00	1932.0
		HCl		2.00	8.76
		H ₂ SO ₄		2.00	8.40
F-11	Blending Silo Baghouse	PM/PM ₁₀		1.03	4.32
F-12	Return Elevator Baghouse	PM/PM ₁₀		0.26	1.08
H-06	Aeropol Feed Baghouse	PM/PM ₁₀		0.17	0.72

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H-07	Elevator Baghouse	PM/PM ₁₀	0.21	0.86
L-12	Clinker Elevator Baghouse Stack	PM/PM ₁₀	0.45	1.91
L-13	Hot Clinker Baghouse Stack	PM/PM ₁₀	0.43	1.80
L-14	Dome 1 Baghouse Stack	PM/PM ₁₀	0.45	1.89
L-15	Dome 1 Bottom Baghouse Stack	PM/PM ₁₀	0.32	1.44
L-16	Truck Loadout Silo Baghouse Stack	PM/PM ₁₀	1.03	4.32
L-18	Clinker Dome 2 Bottom Baghouse Stack	PM/PM ₁₀	0.21	0.86
L-19	Dome 2 Baghouse Stack	PM/PM ₁₀	0.12	0.50
<u>FINISH MILLING</u>				
M-02	Additive Belt Baghouse Stack	PM/PM ₁₀	0.25	1.04
M-04	Additive Belt Baghouse Stack	PM/PM ₁₀	0.15	0.63
M-06	Reversible Belt/Gyp Bin Baghouse Stack	PM/PM ₁₀	0.25	1.04
M-09	Clinker/Limestone Bins Baghouse Stack	PM/PM ₁₀	0.30	1.26
M-10	Special Clinker Bin Baghouse Stack	PM/PM ₁₀	0.21	0.86
M-28	Clinker Feeder Belt Baghouse Stack	PM/PM ₁₀	0.33	1.40
M-29	Clinker Feeder Belt Baghouse Stack	PM/PM ₁₀	0.25	1.04
M-32	Special Clinker Feeder Belt Baghouse	PM/PM ₁₀	0.25	1.04
M-33	Special Clinker Feeder Belt Baghouse	PM/PM ₁₀	0.25	1.04
N-09	FM No. 1 Elevator Baghouse Stack	PM/PM ₁₀	0.15	0.63
N-13	FM No. 1 Separator Baghouse Stack	PM	2.52	10.58
		PM ₁₀	1.26	5.29
N-20	Fly Ash Bins Baghouse Stack	PM/PM ₁₀	0.17	0.72
N-22	FM No. 1 Airslides Baghouse Stack	PM	0.72	3.02
		PM ₁₀	0.36	1.51
N-59	FM No. 2 Elevator Baghouse Stack	PM/PM ₁₀	0.15	0.63

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N-63	FM No. 2 Separator Baghouse Stack	PM	2.52	10.58
		PM ₁₀	1.26	5.29
N-69	FM No. 2 Airslides Baghouse Stack	PM	0.72	3.02
		PM ₁₀	0.36	1.51
N-94a	FM No. 1 Belt Baghouse Stack	PM/PM ₁₀	0.15	0.63
N-94b	FM No. 1 Belt Baghouse Stack	PM/PM ₁₀	0.15	0.63
N-95	FM No. 2 Belt Baghouse Stack	PM/PM ₁₀	0.25	1.04
N-96	Silos 12-15 Baghouse Stack	PM/PM ₁₀	0.15	0.63
N-97	Silos 4-7 Baghouse Stack	PM/PM ₁₀	0.15	0.63
N-98	Silo 2 Baghouse Stack	PM/PM ₁₀	0.15	0.63
N-99	Silo 1 Baghouse Stack	PM/PM ₁₀	0.15	0.63
N-100	Silo 3 Baghouse Stack	PM/PM ₁₀	0.15	0.63
N-101	Silos 8-11 Baghouse Stack	PM/PM ₁₀	0.15	0.63
<u>LOADOUT AND BAGGING OPERATION</u>				
R-08	Silo 1 Loadout Baghouse Stack	PM/PM ₁₀	0.15	0.63
R-18	Silo 2 Loadout Baghouse Stack	PM/PM ₁₀	0.15	0.63
R-28	Silo 3 Loadout Baghouse Stack	PM/PM ₁₀	0.15	0.63
R-38	Silos 8-11 Loadout Baghouse Stack	PM/PM ₁₀	0.15	0.63
R-48	Silos 4-7 Loadout Baghouse Stack	PM/PM ₁₀	0.15	0.63
R-58	Silos 12-15 Loadout Baghouse Stack	PM/PM ₁₀	0.15	0.63
R-70	Rotary Bagging Elevator Baghouse Stack	PM/PM ₁₀	1.26	5.29
R-90	Manned Bagger Elevator Baghouse Stack	PM/PM ₁₀	1.26	5.29
F-1 Group (9)	Material Handling (6)	PM	5.78	5.71
		PM ₁₀	2.76	2.71
<u>COAL AND COKE OPERATION</u>				

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S-01 (10)	Group	Coal/Coke Stockpiles (6)	PM	0.60	1.71
			PM ₁₀	0.28	0.81
S-98		Coal and Coke Road Hopper (6)	PM	1.80	7.90
			PM ₁₀	0.90	4.00
S-44		Coal and Coke Unloading Baghouse Stack	PM/PM ₁₀	0.64	2.70
S-30		Coal Mill Baghouse	PM/PM ₁₀	2.14	9.00
S-56		Coal Bin Baghouse	PM/PM ₁₀	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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - NO_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 - PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
 - CO - carbon monoxide
 - HCl - hydrogen chloride
 - H₂SO₄ - sulfuric acid
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) The emission limitations for EPN Q-1 GROUP authorize emissions from EPNs Q-01, Q-02, Q-04, Q-05, Q-06, Q-07, Q-09, Q-10, and C-05.
- (6) Fugitive emissions are an estimate only.
- (7) The emission limitations for EPN RMS GROUP authorize emissions from EPNs M-99, D-99, and M-98.
- (8) Emissions from K-19 must comply with New Source Performance Standard, Subpart F.
- (9) The emission limitations for EPN F-1 GROUP authorize emissions from EPNs C-07, C-08, D-01, D-04, D-05, D-11, D-14, D-15, D-16, E-01, E-03, M-01, M-21, M-23, M-24, M-25, D-20, S-07, S-08, S-11, S-13, S-18, and S-20.
- (10) The emission limitations for EPN S-01 GROUP authorize emissions from EPNs S-99, CCS, and CLS

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

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Date: May 13, 2011