

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 77337

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		Source	Air Contaminant	
		<u>Emission Rates *</u>		
Point No. (1)			Name (2)	
			Name (3)	lb/hr
			TPY	
STOCKFUG			Ore Stockpile (4)PM---	
		PM ₁₀	---	0.16
GRZLYFUG	Ore Grizzly (4)	PM	0.09	0.39
		PM ₁₀	0.04	0.16
OREBIN	Main Ore Bin (4)	PM	<0.01	0.01
		PM ₁₀	<0.01	0.01
SANDDRY	Sand Drying Fugitives (4)	PM	1.77	7.75
		PM ₁₀	0.10	0.44
STRSTCK1	Starnell Dryer	NO _x	2.70	11.83
	Wet Scrubber Stack	CO	2.27	9.94
		SO ₂	0.02	0.09
		VOC	0.15	0.66
		PM	16.60	72.71
		PM ₁₀	6.43	28.16
SANDCON	Sand Conveying Fugitives (4)	PM	2.30	10.07
			PM ₁₀	0.10
0.44				
SANDLOAD	Sand Loading Fugitives (4)	PM	0.02	0.09
		PM ₁₀	0.01	0.04

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
CLAYSTOR	Clay Storage Fugitives (4)	PM	0.03	0.14
		PM ₁₀	0.01	0.06
CLAYLOAD	Clay Loading Fugitives (4)	PM	0.18	0.79
		PM ₁₀	0.07	0.31
SDSTACK1	Spray Dryer No. 1 Wet Scrubber Stack	NO _x	6.83	29.92
		CO	5.74	25.14
		SO ₂	0.04	0.18
		VOC	0.38	0.84
		PM	20.00	87.60
		PM ₁₀	20.00	87.60
SDSTACK2	Spray Dryer No. 2 Wet Scrubber Stack	NO _x	6.83	29.92
		CO	5.74	25.14
		SO ₂	0.04	0.18
		VOC	0.38	0.84
		PM	33.00	144.54
		PM ₁₀	33.00	144.54
CLAYMILL	Reitz Mills Roof Vent Fugitives (4)	PM	0.24	
		PM ₁₀	0.10	0.44
SILOSTCK	Clay Silos 1A, 1B, and 1C Baghouse Stack	PM	1.29	5.65
		PM ₁₀	1.29	5.65
CLAYPULV	Clay Pulverizing Fugitives (4)	PM	0.18	0.79
		PM ₁₀	0.07	0.31
BAUER5	Bauer Mill Fugitives (4)	PM	0.10	0.44
		PM ₁₀	0.04	0.18
CALSTCK1	Calcine Furnace Baghouse Stack	NO _x	1.98	8.67
		CO	1.66	7.27
		SO ₂	0.04	0.18

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
		VOC	0.11	0.43
		PM	2.50	10.95
		PM ₁₀	2.50	10.95
IB255STK	Silo 5A and 5B	PM	0.56	2.44
	Baghouse Stack	PM ₁₀	0.56	2.44
MICROST1		Clay Silo 6A Baghouse Stack		PM
			0.17	0.74
		PM ₁₀	0.17	0.74
MICROST2		Clay Silo 6B_Baghouse Stack		PM
			0.17	0.74
		PM ₁₀	0.17	0.74
MICROST3		Clay Silo 6A and 6B		PM
			0.17	0.74
	Baghouse Stack	PM ₁₀	0.17	0.74
TORITSTK	Bagging Machines A, B, and Bulk	PM	0.43	1.88
	Baghouse Stack	PM ₁₀	0.43	1.88
FARR01	Hydrous Bagging Machine D	PM	0.43	1.88
	Baghouse Stack	PM ₁₀	0.43	1.88
MIKROPUL		Load Bin K and L, Silos K1, K2,		PM
			0.13	0.56
	and L1 Baghouse Stack	PM ₁₀	0.13	0.56
FARRSTCK		Load Bins E and F, Silos E1, E2,		PM
			0.51	2.25
	and F1 Baghouse Stack	PM ₁₀	0.51	2.25

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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 - particulate matter, suspended in the atmosphere, including PM₁₀.
PM₁₀ - particulate matter equal to or less than 10 microns in diameter
NO_x - total oxides of nitrogen
CO - carbon monoxide
SO₂ - sulfur dioxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) Fugitive emissions are an estimate only.

- * Emission rates are based on and the facilities are limited by the following maximum operating schedule and throughput rates:

24 Hrs/day 7 Days/week 52 Weeks/year

150 tons/hour and 876,000 tons/year of sand and clay

Dated October 26, 2009