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	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
STOCKFUG	Ore Stockpile (4)	PM	---	0.39
		PM_{10}	---	0.16
GRIZLYFUG	Ore Grizzly (4)	PM	0.09	0.39
		PM_{10}	0.04	0.16
OREBIN	Ore Handling (4)	PM	<0.01	0.01
		PM_{10}	<0.01	0.01
SANDDRY	Sand Drying (4)	PM	1.77	7.75
		PM_{10}	0.10	0.44
STRSTACK1	Starnell Fluid Bed Dryer Wet Scrubber Stack	NO_x	6.83	29.92
		CO	5.76	25.23
		SO_2	0.04	0.18
		VOC	0.38	0.43
		PM	33.00	144.54
		PM_{10}	33.00	144.54
SANDCON	Sand Conveying (4)	PM	2.30	10.07
		PM_{10}	0.10	0.44
SANDLOAD	Sand Loading (4)	PM	0.02	0.09
		PM_{10}	0.01	0.04
CLAYSTOR	Clay Storage Operations (4)	PM	0.03	0.14
		PM_{10}	0.01	0.06
CLAYLOAD	Clay Loading Operations (4)	PM	0.18	0.79

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * lb/hr	TPY
		PM_{10}	0.07	0.31
SDTACK1	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
SDTACK2	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	Rietz Mills Nos. 1 and 2 (4)	PM	0.24	1.05
		PM_{10}	0.10	0.44
SILOSTACK	Clay Silos 1A, 1B, and 1C Baghouse Stack	PM	1.29	5.65
		PM_{10}	1.29	5.65
CLAYPULV	Clay Pulverizing Operations (4)	PM	0.18	0.79
		PM_{10}	0.07	0.31
BAUER5	Calcining Operations (4)	PM	0.10	0.44
		PM_{10}	0.04	0.18
CALSTACK1	Calcine1 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)	Emission Rates * lb/hr	TPY
		VOC	0.11	0.43
		PM	2.50	10.95
		PM_{10}	2.50	10.95
IB255STACK	Silo 5A, Silo 5B, Bauer5A, and Bauer5B Baghouse Stack	PM	0.56	2.44
		PM_{10}	0.56	2.44
MICROSTAK1	Silo 6B Baghouse Stack	PM	0.17	0.74
		PM_{10}	0.17	0.74
MICROSTAK2	Silo 6A Baghouse Stack	PM	0.17	0.74
		PM_{10}	0.17	0.74
MICROSTAK3	Silo 6A Baghouse Stack	PM	0.17	0.74
		PM_{10}	0.17	0.74
TORITSTAK	Bagging Baghouse Stack	PM	0.43	1.88
		PM_{10}	0.43	1.88
FARR No.1	Silo 3 Baghouse Stack	PM	0.43	1.88
		PM_{10}	0.43	1.88
MIKROPUL No.1	Load Bin K, Load Bin L, Silo K1, and Silo K2 Baghouse Stack	PM	0.13	0.56
		PM_{10}	0.13	0.56
FARRSTACK	Silo E1, Silo E2, Load Bin E Load Bin F, and Load Bin F Elv Baghouse Stack	PM	0.51	2.25
		PM_{10}	0.51	2.25

(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_{10}.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

PM_{10} - 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.
NO_x - total oxides of nitrogen
CO - carbon monoxide
SO_2 - 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 May 26, 2009