

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 8038

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 Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
7	Kiln Bag Filter Stack	PM	1.15	5.04
		PM <sub>10</sub>	1.15	5.04
16	Nitric Attack Vent	NO <sub>x</sub>	0.10	0.43
		HNO <sub>3</sub>	0.04	0.12
43	Kiln Stack	PM	0.20	0.90
		PM <sub>10</sub>	0.20	0.90
		NO <sub>x</sub>	9.15	40.00
		VOC	0.01	0.04
		SO <sub>2</sub>	<0.01	0.01
		CO	1.90	8.33
		NH <sub>3</sub>	2.40	10.51
		NH <sub>4</sub> NO <sub>3</sub>	0.97	4.25
44	Storage Tank Bag Filter Stack	PM	0.014	0.07
		PM <sub>10</sub>	0.014	0.07
45	Conveyor Bag Filter Stack	PM	0.014	0.07
		PM <sub>10</sub>	0.014	0.07
46	Weigh Hopper Blend	PM	0.014	0.07
		PM <sub>10</sub>	0.014	0.07
50	Dryer Bag Filter Stack	PM	0.04	0.20
		PM <sub>10</sub>	0.04	0.20
		NH <sub>3</sub>	0.18	0.79
53	Packed Tower	VOC	8.80	38.54
		NH <sub>3</sub>	1.00	4.40

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
62B	Rotary Filter Stack	NH <sub>3</sub>	0.50	2.19
63	Reactor Filter Stack	NH <sub>3</sub>	1.00	4.40
76	Kiln Bag Filter Stack	PM	0.14	0.61
		PM <sub>10</sub>	0.14	0.61
		NO <sub>x</sub>	0.43	1.90
77	Bag Filter Stack	PM	0.04	0.18
		PM <sub>10</sub>	0.04	0.18
78	Effl. Vacuum Pump	NH <sub>3</sub>	1.20	5.30
79	Effl. Filter Head	NH <sub>3</sub>	0.50	2.20
83	Belt Filter, Vacuum Vent	NH <sub>3</sub>	0.36	1.56
90	Cerium Zirconium Wet Scrubber Stack	PM	0.10	0.40
		PM <sub>10</sub>	0.10	0.40
F-RE	Vacuum Pump (4)	NH <sub>3</sub>	1.98	8.67

(1) Emission point identification - either specific equipment designation or emission point number from a plot plan.

(2) Specific point source names. 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, it shall be assumed that no particulate matter 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

HNO<sub>3</sub> - nitric acid

NH<sub>3</sub> - ammonia  
NH<sub>4</sub>NO<sub>3</sub> - ammonium nitrate

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(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

\* 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 8,760 Hrs/year

Dated September 4, 2002