EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 45073

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
1* and 2a* - e*	Disintegrator Material Handling (4)	PM (total)		0.07	0.03
		PM_{10} (total)		0.03	0.01
2*	Primary Disintegrator (4)	PM		0.16	0.06
		PM_{10}	0.06	0.02	
3*	Gleason Shredder Feed (4)	PM		0.10	0.02
		PM_{10}	0.04	0.01	
4* and 4a*	Gleason Drop Points (4)	PM (total)		0.02	0.01
		PM_{10} (total)	0.01	0.01	
5*	Gleason Shredder Discharge (4)	PM		0.01	<0.01
		PM_{10}		<0.01	<0.01
10	Drop Points (4)	PM		1.75	0.09
		PM_{10}	0.07	0.01	
19	Holding Room (4)	PM_{10}		<0.01	<0.01
		NO_x	<0.01	<0.01	
		SO_2	<0.01	<0.01	
		VOC	<0.01	<0.01	
		CO	<0.01	<0.01	
		HCl	<0.01	<0.01	
		HF	<0.01	<0.01	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)		Emission Rates * * lb/hr	TPY
20	Holding Room (4)	PM_{10}		<0.01	<0.01
		NO_x	<0.01	<0.01	
		SO_2	<0.01	<0.01	
		VOC	<0.01	<0.01	
		CO	<0.01	<0.01	
		HCl	<0.01	<0.01	
		HF	<0.01	<0.01	
21	Dryer B1	PM_{10}		0.06	0.27
		NO_x	0.01	0.03	
		SO_2	0.01	0.03	
		VOC	0.14	0.60	
		CO	0.57	2.51	
		HCl	<0.01	<0.01	
		HF	<0.01	<0.01	
22	Dryer B2	PM_{10}		0.06	0.27
		NO_x	0.01	0.03	
		SO_2	0.01	0.03	
		VOC	0.14	0.60	
		CO	0.57	2.51	
		HCl	<0.01	<0.01	
		HF	<0.01	<0.01	
23	Dryer B3	PM_{10}		0.06	0.27
		NO_x	0.01	0.03	
		SO_2	0.01	0.03	
		VOC	0.14	0.60	
		CO	0.57	2.51	
		HCl	<0.01	<0.01	
		HF	<0.01	<0.01	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)		Emission Rates * * lb/hr	TPY
24	Dryer B4	PM_{10}		0.06	0.27
		NO_x	0.01	0.03	
		SO_2	0.01	0.03	
		VOC	0.14	0.60	
		CO	0.57	2.51	
		HCl	<0.01	<0.01	
		HF	<0.01	<0.01	
25	B Kiln Scrubber Exhaust	PM		11.45	50.16
		PM_{10}	3.82	16.73	
		NO_x	1.35	5.91	
		SO_2	13.62	59.66	
		VOC	1.78	7.80	
		CO	20.43	89.48	
		HCl	2.00	8.76	
		HF	0.14	0.61	
26	B Kiln Undercar Exhaust (4)	PM		<0.01	<0.01
		PM_{10}	<0.01	<0.01	
		NO_x	<0.01	<0.01	
		SO_2	<0.01	<0.01	
		VOC	<0.01	<0.01	
		CO	<0.01	<0.01	
		HCl	<0.01	<0.01	
		HF	<0.01	<0.01	
32*	Grog Crusher (4)	PM		0.08	<0.01
		PM_{10}	0.03	<0.01	
35*	Grinding/Screening A Plant Baghouse Stack	PM_{10}		1.80	7.88
38* and 38a*	Material Handling Drop Points (4)	PM		<0.01	<0.01
		PM_{10}		<0.01	<0.01
40	Holding Room (4)	PM_{10}		<0.01	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)		Emission Rates * * lb/hr	TPY
		NO_x	<0.01	<0.01	
		SO_2	<0.01	<0.01	
		VOC	<0.01	<0.01	
		CO	<0.01	<0.01	
		HCl	<0.01	<0.01	
		HF	<0.01	<0.01	
41*	C Dryer	PM_{10}		0.08	0.36
		NO_x	0.01	0.03	
		SO_2	0.01	0.04	
		VOC	0.18	0.80	
		CO	0.77	3.37	
		HCl	<0.01	<0.01	
		HF	<0.01	<0.01	
42*	C Kiln	PM		3.96	17.33
		PM_{10}	3.59	15.70	
		NO_x	1.44	6.32	
		SO_2	5.61	24.58	
		VOC	0.73	3.21	
		CO	8.42	36.88	
		HCl	0.82	3.61	
		HF	1.69	7.40	
43*	A Dryer	PM_{10}		0.08	0.36
		NO_x	0.01	0.03	
		SO_2	0.01	0.04	
		VOC	0.18	0.80	
		CO	0.77	3.37	
		HCl	<0.01	<0.01	
		HF	<0.01	<0.01	

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)		Emission Rates * * lb/hr	TPY
44*	A Kiln	PM		3.96	17.33
		PM_{10}	3.59	15.70	
		NO_x	1.44	6.32	
		SO_2	5.61	24.58	
		VOC	0.73	3.21	
		CO	8.42	36.88	
		HCl	0.82	3.61	
		HF	1.69	7.40	
51, 53, 54, 56, and 57	Material Handling Drop Points (4)	PM		14.00	5.40
		PM_{10}		0.56	0.22
52	Disintegrator No. 2 (4)	PM		0.13	0.05
		PM_{10}	0.05	0.02	
55 and 55a	Calciner Screen (4)	PM		0.84	0.26
		PM_{10}	0.08	0.03	
58	Calciner Wet Scrubber	PM_{10}		4.95	22.00
		NO_x	3.61	16.00	
		SO_2	30.00	131.00	
		VOC	0.11	0.48	
		CO	5.66	25.00	
		HCl	0.24	1.05	
		HF	0.05	0.22	
99*	Diesel Fuel Tank	VOC		<0.01	<0.01
FUG-1	B - Plant Manufacturing Building (4)	PM		0.11	0.50
		PM_{10}		0.11	0.50
FUG - 2	B - Plant Grind Building (4)	PM		0.11	0.50
		PM_{10}	0.11	0.50	
FUG - 3	A - Plant Building (4)	PM		0.11	0.50
		PM_{10}	0.11	0.50	

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * * lb/hr	TPY
FUG - 4	Clay Stockpile (4)	PM	--	16.90
		PM_{10}	--	8.40
FUG-5	Vehicle (Machinery) (4)	PM	--	12.00
		PM_{10}	--	6.00

(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 an 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
SO_2 - sulfur dioxide
PM - particulate matter, suspended in the atmosphere, including PM_{10}.
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.
CO - carbon monoxide
HCl - hydrogen chloride
HF - hydrogen fluoride
(4) Fugitive emissions are an estimate only.

* These are grandfathered sources and the emission rates are included for information purposes only.

** 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

Dryers B1, B2, B3, and B4 are limited to a maximum temperature of 600°F.

Kiln B is limited to a maximum temperature of 2300°F.

The calciner is limited to a maximum temperature of 1800°F.

Dated November 12, 2002