

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 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)		0.08	0.06
		PM ₁₀ (total)		0.02	0.03
5*	Gleason Shredder Discharge (4)	PM		0.01	<0.01
		PM ₁₀		<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	

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				lb/hr	TPY
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
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	10.38	45.46
			NO _x	4.18	18.29
			SO ₂	5.59	24.51
			VOC	0.29	1.25
			CO	14.32	62.70
			HCl	1.42	6.22
			HF	0.44	1.93
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

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				lb/hr	TPY
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
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	2.76	12.09	
		VOC	0.10	0.43	
		CO	4.95	21.66	
		HCl	0.70	3.07	
		HF	1.52	6.68	
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	
44*	A Kiln	PM		3.96	17.33
		PM ₁₀	3.59	15.70	
		NO _x	1.44	6.32	
		SO ₂	2.76	12.09	

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			lb/hr	TPY
		VOC	0.10	0.43
		CO	4.95	21.66
		HCl	0.70	3.07
		HF	1.52	6.68
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	Calclner Screen (4)	PM	0.84	0.26
		PM ₁₀	0.08	0.03
58	Calclner Wet Scrubber	PM ₁₀	4.95	22.00
		NO _x	3.61	16.00
		SO ₂	30.00	131.00
		VOC	0.17	0.74
		CO	5.66	25.00
		HCl	0.26	1.14
		HF	0.07	0.32
99*	Diesel Fuel Tank	VOC	<0.01	<0.01
FUG-1	B - Plant Manufacturing Building (4)	PM	0.11	0.50
		PM ₁₀	0.06	0.25
FUG - 2	B - Plant Grind Building (4)	PM	0.11	0.50
		PM ₁₀	0.06	0.25

FUG - 3	A - Plant Building (4)	PM	0.11	0.50
		PM ₁₀	0.06	0.25
FUG - 4	Clay Stockpile (4)	PM	--	16.90
		PM ₁₀	--	8.40
FUG - 5				

- (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 30 Texas Administrative Code Section 101.1
 - NO_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - PM - particulate matter, suspended in the atmosphere, including PM₁₀.
 - PM₁₀ - 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 _____