

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
EPNs 1, 2A - E	Disintegrator Material Handling (4)	PM	0.07	0.04
		PM ₁₀	0.03	0.01
EPN 2	Primary Disintegrator (4)	PM	0.16	0.06
		PM ₁₀ 0.06	0.02	
EPNs 4 and 4A	Gleason Drop Points (4)	PM	0.02	0.01
		PM ₁₀ 0.01	0.01	
EPN 19	B Plant 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	
EPN 20	B Plant 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	
EPN 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	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
EPN 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
EPN 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
EPN 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
EPN 25	B Kiln Scrubber Exhaust	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

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			lb/hr	TPY
EPN 26	B Kiln Undercar Exhaust (4)	PM ₁₀	<0.01	<0.01
		NO _x	<0.01	
		SO ₂	<0.01	
		VOC	<0.01	
		CO	<0.01	
		HCl	<0.01	
		HF	<0.01	
EPN 27	B-Plant Grinding Dust Collector	PM ₁₀	3.09	4.02
EPN 32	Grog Crusher (4)	PM	0.08	<0.01
		PM ₁₀	<0.01	
EPN 38C	Sand Roo Dust Collector	PM ₁₀	<0.01	0.01
EPN 40	A- Plant Holding Room (4)	PM ₁₀	0.02	0.10
		NO _x	<0.01	0.01
		SO ₂	<0.01	
		VOC	0.05	0.23
		CO	0.22	0.96
		HCl	<0.01	
		HF	<0.01	
EPN 40A	B- Plant Holding Room (4)	PM ₁₀	0.02	0.10
		NO _x	<0.01	0.01
		SO ₂	<0.01	
		VOC	0.05	0.23
		CO	0.22	0.96
		HCl	<0.01	
		HF	<0.01	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
EPN 41	C Dryer	PM ₁₀	0.08	0.36
		NO _x	0.01	0.03
		SO ₂	0.01	0.04
		VOC	0.26	1.15
		CO	1.10	4.82
		HCl	<0.01	<0.01
		HF	<0.01	<0.01
EPN 43	A Dryer	PM ₁₀	0.08	0.36
		NO _x	0.01	0.03
		SO ₂	0.01	0.04
		VOC	0.26	1.15
		CO	1.10	4.82
		HCl	<0.01	<0.01
		HF	<0.01	<0.01
EPN 43A	A-Plant B Dryer	PM ₁₀	0.08	0.36
		NO _x	0.01	0.03
		SO ₂	0.01	0.04
		VOC	0.26	1.15
		CO	1.10	4.82
		HCl	<0.01	<0.01
		HF	<0.01	<0.01
EPN 45	A and C Kiln (Common) Stack	PM ₁₀	6.89	30.18
		NO _x	1.55	6.79
		SO ₂	22.96	100.58
		VOC	2.04	8.95
		CO	23.46	102.75
		HCl	2.45	10.71
		HF	5.17	22.63
EPNs 51, 53, 54, and 56	Material Handling Drop Points (4)	PM	0.04	0.01
		PM ₁₀	0.02	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
EPN 57	Calciner Drop Point (4)	PM	0.03	0.01
		PM ₁₀ 0.02	0.01	
EPN 52	Disintegrator No. 2 (4)	PM	0.13	0.05
		PM ₁₀ 0.05	0.02	
EPNs 55 and 55A	Calciner Screen (4)	PM	0.84	0.26
		PM ₁₀ 0.08	0.03	
EPN 58	Calciner Wet Scrubber	PM/PM ₁₀	8.00	35.04
		NO _x 9.80	49.92	
		SO ₂ 30.00	79.00	
		VOC 0.34	1.49	
		CO 12.00	52.56	
		HCl 0.24	1.05	
		HF 0.05	0.22	
EPN 99	Diesel Fuel Storage Tank	VOC	<0.01	<0.01
FUG-1	B – Plant Manufacturing Building Fugitive (4)	PM ₁₀	<0.01	0.01
FUG-2	B – Plant Grind Building (4)	PM ₁₀	0.01	0.03
FUG-3	A – Plant Building Fugitive (4)	PM	0.25	1.09
		PM ₁₀ 0.19	0.82	
FUG-4	Clay Stockpile (4)	PM	–	2.16
		PM ₁₀ –	1.08	
FUG-5	Vehicle (Machinery) (4)	PM	–	12.00
		PM ₁₀	–	6.00

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- (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) 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 PM greater than 10 microns is emitted.

NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1.
CO - carbon monoxide
HCl - hydrogen chloride
HF - hydrogen fluoride
- (4) Fugitive emissions are an estimate only.

Dated March 29, 2005