

# 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, sources, and related activities. 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 (6)	
			lbs/hour	TPY (4)
EPNs 1, 24 - E	Disintegrator Material Handling (5)	PM	0.07	0.04
		PM <sub>10</sub>	0.04	0.01
EPN 2	Primary Disintegrator (5)	PM	0.12	0.06
		PM <sub>10</sub>	0.06	0.02
EPNs 4 and 4A	Various Drop Points (5)	PM	0.02	0.01
		PM <sub>10</sub>	<0.01	<0.01
EPN 19	B Plant Holding Room (5)	VOC	<0.01	<0.01
		NO <sub>x</sub>	<0.01	<0.01
		SO <sub>2</sub>	<0.01	<0.01
		PM	<0.01	<0.01
		PM <sub>10</sub>	<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 (5)	VOC	<0.01	<0.01
		NO <sub>x</sub>	<0.01	<0.01
		SO <sub>2</sub>	<0.01	<0.01
		PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		CO	<0.01	<0.01
		HCl	<0.01	<0.01
		HF	<0.01	<0.01
EPN 21	Dryer B1	VOC	0.14	0.60
		NO <sub>x</sub>	0.01	0.03
		SO <sub>2</sub>	0.01	0.03
		PM	0.06	0.27
		PM <sub>10</sub>	0.06	0.27

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		CO	0.57	2.51
		HCl	<0.01	<0.01
		HF	<0.01	<0.01
EPN 22	Dryer B2	VOC	0.14	0.60
		NO <sub>x</sub>	0.01	0.03
		SO <sub>2</sub>	0.01	0.03
		PM	0.06	0.27
		PM <sub>10</sub>	0.06	0.27
		CO	0.57	2.51
		HCl	<0.01	<0.01
		HF	<0.01	<0.01
EPN 23	Dryer B3	VOC	0.14	0.60
		NO <sub>x</sub>	0.01	0.03
		SO <sub>2</sub>	0.01	0.03
		PM	0.06	0.27
		PM <sub>10</sub>	0.06	0.27
		CO	0.57	2.51
		HCl	<0.01	<0.01
		HF	<0.01	<0.01
EPN 24	Dryer B4	VOC	0.14	0.60
		NO <sub>x</sub>	0.01	0.03
		SO <sub>2</sub>	0.01	0.03
		PM	0.06	0.27
		PM <sub>10</sub>	0.06	0.27
		CO	0.57	2.51
		HCl	<0.01	<0.01
		HF	<0.01	<0.01
EPN 25	B Kiln Scrubber Exhaust	VOC	1.78	7.80
		NO <sub>x</sub>	1.35	5.91
		SO <sub>2</sub>	13.62	59.66
		PM	3.82	16.73
		PM <sub>10</sub>	3.82	16.73
		CO	20.43	89.48
		HCl	2.00	8.76

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		HF	0.14	0.61
EPN 26	B Kiln Undercar Exhaust (5)	VOC	<0.01	<0.01
		NO <sub>x</sub>	<0.01	<0.01
		SO <sub>2</sub>	<0.01	<0.01
		PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		CO	<0.01	<0.01
		HCl	<0.01	<0.01
		HF	<0.01	<0.01
EPN 27	B-Plant Grinding Dust Collector	PM	3.09	4.02
		PM <sub>10</sub>	3.09	4.02
EPN 32	Grog Crusher (5)	PM	0.06	<0.01
		PM <sub>10</sub>	0.03	<0.01
EPN 38C	Sand Room Dust Collector	PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
EPN 40	A-Plant Holding Room (5)	VOC	0.05	0.23
		NO <sub>x</sub>	<0.01	0.01
		SO <sub>2</sub>	<0.01	<0.01
		PM	0.02	0.10
		PM <sub>10</sub>	0.02	0.10
		CO	0.22	0.96
		HCl	<0.01	<0.01
		HF	<0.01	<0.01
EPN 40A	B-Plant Holding Room (5)	VOC	0.05	0.23
		NO <sub>x</sub>	<0.01	0.01
		SO <sub>2</sub>	<0.01	<0.01
		PM	0.02	0.10
		PM <sub>10</sub>	0.02	0.10
		CO	0.22	0.96
		HCl	<0.01	<0.01
		HF	<0.01	<0.01
EPN 41	C Dryer Stack	VOC	0.26	1.15
		NO <sub>x</sub>	0.01	0.03
		SO <sub>2</sub>	0.01	0.04

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		PM	0.08	0.34
		PM <sub>10</sub>	0.08	0.34
		CO	1.10	4.82
		HCl	<0.01	<0.01
		HF	<0.01	<0.01
EPN 43	A Dryer Stack	VOC	0.26	1.15
		NO <sub>x</sub>	0.01	0.03
		SO <sub>2</sub>	0.01	0.04
		PM	0.08	0.36
		PM <sub>10</sub>	0.08	0.36
		CO	1.10	4.82
		HCl	<0.01	<0.01
		HF	<0.01	<0.01
EPN 43A	A-Plant B Dryer Stack	VOC	0.26	1.15
		NO <sub>x</sub>	0.01	0.03
		SO <sub>2</sub>	0.01	0.04
		PM	0.08	0.36
		PM <sub>10</sub>	0.08	0.36
		CO	1.10	4.82
		HCl	<0.01	<0.01
		HF	<0.01	<0.01
EPN 45	A and C Kiln (Common) Stack	VOC	2.04	8.95
		NO <sub>x</sub>	1.55	6.79
		SO <sub>2</sub>	22.96	100.58
		PM	6.89	30.18
		PM <sub>10</sub>	6.89	30.18
		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 (5)	PM	0.04	0.01
		PM <sub>10</sub>	0.02	0.01
EPN 57	Claciner Drop Point (5)	PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
EPN 52	Disintegrator No. 2	PM	0.10	0.04

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	(5)	PM <sub>10</sub>	0.04	0.02
EPNs 55 and 55A	Calciner Screen (5)	PM	0.22	0.07
		PM <sub>10</sub>	0.08	0.02
EPN 58	Calciner Wet Scrubber Stack	VOC	0.11	0.48
		NO <sub>x</sub>	2.91	12.73
		SO <sub>2</sub>	2.85	12.46
		PM	0.93	4.08
		PM <sub>10</sub>	0.93	4.08
		CO	1.41	6.19
		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 (5)	PM	0.01	0.01
		PM <sub>10</sub>	0.01	<0.01
FUG-2	B-Plant Grind Building (5)	PM	0.08	0.03
		PM <sub>10</sub>	0.07	0.02
FUG-3	A-Plant Building Fugitive (5)	PM	0.17	0.07
		PM <sub>10</sub>	0.06	0.02
FUG-4	Clay Stockpile (5)	PM	--	2.16
		PM <sub>10</sub>	--	1.08
FUG-5	Vehicle (Machinery) (5)	PM	--	12.00
		PM <sub>10</sub>	--	6.00

- (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) 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  
 PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented  
 PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented  
 CO - carbon monoxide  
 HCl - hydrochloric acid  
 HF - hydrogen fluoride
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

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- (6) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

Date: February 8, 2013