

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 23344

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 *	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
4-06	Furnace No. 3 ESP Unit	PM <sub>10</sub> (4)	1.25	5.48
		PM (5)	0.07	0.31
		NO <sub>x</sub>	9.1	39.9
		SO <sub>2</sub>	0.06	0.05
		CO	2.5	11.0
		VOC 0.08	0.35	
4-06A	Furnace No. 3 Dust-Pickup Baghouse	PM <sub>10</sub> 0.1	0.5	
4-07	Wet Fritting Baghouse	PM <sub>10</sub> (4)	0.42	1.84
		PM (5)	0.19	0.84
		NO <sub>x</sub>	1.29	5.67
		SO <sub>2</sub>	0.04	0.18
		CO	0.48	2.10
		VOC 0.04	0.18	
4-08	CCE Mill Baghouses	PM <sub>10</sub> (4)	0.08	0.35
4-17A	Former No. 15 Baghouse	PM <sub>10</sub> (4)	0.40	1.75
		PM (5)	0.10	0.44
		NO <sub>x</sub>	1.17	5.12
		SO <sub>2</sub>	<0.01	0.04
		CO	0.25	1.10
		VOC 0.02	0.09	
4-17AP	Former No. 15 Heat Treater	PM (5)	0.02	0.09
		NO <sub>x</sub>	0.24	1.05

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Emission *	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
4-17B	Former No. 16 Baghouse	SO <sub>2</sub>	<0.01	0.04
		CO	0.05	0.22
		VOC	<0.01	0.04
		PM <sub>10</sub> (4)	0.40	1.75
		PM (5)	0.10	0.44
		NO <sub>x</sub>	1.17	5.12
		SO <sub>2</sub>	<0.01	0.04
		CO	0.25	1.10
4-17BP	Former No. 16 Heat Treater	VOC	0.02	0.09
		PM (5)	0.02	0.09
		NO <sub>x</sub>	0.24	1.05
		SO <sub>2</sub>	<0.01	0.04
		CO	0.05	0.22
4-18	Former No. 17 ESP	VOC	<0.01	0.04
		PM <sub>10</sub> (4)	0.45	1.97
		PM (5)	0.10	0.44
		NO <sub>x</sub>	1.17	5.12
		SO <sub>2</sub>	<0.01	0.04
		CO	1.1	4.82
4-19	Former No. 18 Baghouse	VOC	0.02	0.09
		PM <sub>10</sub> (4)	0.40	1.75
		PM (5)	0.10	0.44
		NO <sub>x</sub>	1.17	5.12
		SO <sub>2</sub>	<0.01	0.04
		CO	0.25	1.10
4-19P	Former No. 18 Heat Treater	VOC	0.02	0.09
		PM (5)	0.02	0.09
		NO <sub>x</sub>	0.24	1.05
		SO <sub>2</sub>	<0.01	0.04
		CO	0.05	0.22
		VOC	<0.01	0.04

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Emission *	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
4-20A	Bead Wash Dryer	PM <sub>10</sub> (4)	0.10	0.44
	Baghouse (6)	IPA	0.70	3.03
		Acetone	0.13	0.55
		Chloroacetone	0.37	1.63
4-20B	Bead Wash Dryer (6)	PM (5)	0.14	0.60
		NO <sub>x</sub>	0.92	4.03
		SO <sub>2</sub>	0.03	0.12
		CO	0.34	1.48
		VOC 0.03	0.12	
4-44	Former No. 11 Baghouse	PM (4)	0.45	2.00
		PM (5)	0.10	0.44
		NO <sub>x</sub>	1.17	5.12
		SO <sub>2</sub>	0.02	0.09
		CO	0.25	1.10
		VOC 0.02	0.09	
4-44P	Products of Combustion	PM (5)	0.02	0.09
		NO <sub>x</sub>	0.24	1.05
		SO <sub>2</sub> 0.02	0.09	
		CO 0.05	0.22	
		VOC <0.01	0.02	
4-34	Former No. 19 Baghouse	PM <sub>10</sub> (4)	0.40	1.75
		PM (5)	0.10	0.44
		NO <sub>x</sub>	1.17	5.12
		SO <sub>2</sub>	<0.01	0.04
		CO	0.25	1.10
		VOC 0.02	0.09	
4-34P	Former No. 19 Heat Treater	PM (5)	0.02	0.09
		NO <sub>x</sub>	0.24	1.05
		SO <sub>2</sub>	<0.01	0.04
		CO	0.05	0.22
		VOC <0.01	0.04	

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Emission *	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
4-35	Former No. 20 Baghouse	PM <sub>10</sub> (4)	0.40	1.75
		PM (5)	0.10	0.44
		NO <sub>x</sub>	1.17	5.12
		SO <sub>2</sub>	<0.01	0.04
		CO	0.25	1.10
		VOC	0.02	0.09
4-35P	Former No. 20 Heat Treater	PM (5)	0.02	0.09
		NO <sub>x</sub>	0.24	1.05
		SO <sub>2</sub>	<0.01	0.04
		CO	0.05	0.22
		VOC	<0.01	0.04
4-43	Former No. 21 Baghouse	PM <sub>10</sub> (4)	0.45	1.97
		PM (5)	0.10	0.44
		NO <sub>x</sub>	1.17	5.12
		SO <sub>2</sub>	<0.01	0.04
		CO	0.25	1.10
		VOC	0.02	0.09
4-43P	Former No. 21 Heat Treater	PM (5)	0.02	0.09
		NO <sub>x</sub>	0.24	1.05
		SO <sub>2</sub>	<0.01	0.04
		CO	0.05	0.22
		VOC	<0.01	0.04
4-0944	ESP Unit for Former Nos. 13, 14, and 22	PM <sub>10</sub> (4)	1.34	5.87
		PM (5)	0.30	1.31
		NO <sub>x</sub>	3.51	15.4
		SO <sub>2</sub>	0.30	0.13
		CO	1.10	4.82
		VOC	0.06	0.26
4-2324	Furnace No. 2 ESP Unit	PM <sub>10</sub> (4)	1.43	6.27
		PM (5)	0.15	0.66
		NO <sub>x</sub>	9.1	39.9

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
		SO <sub>2</sub>	0.06	0.26
		CO	0.81	3.55
		VOC 0.07	0.31	
15-1	TCP Drier Baghouse	PM/PM <sub>10</sub> (4)	1.40	6.13
15-2	Dust Pickup Baghouse	PM/PM <sub>10</sub> (4)	0.16	0.70
15-3	Filter Receiver Baghouse	PM/PM <sub>10</sub> (4)	0.10	0.40
15-4	Bag Collector (6)	PM <sub>10</sub> (4)	0.33	1.45
15-5	Hopper Baghouse	PM <sub>10</sub> (4)	0.20	0.90
15-6	Hopper Baghouse 0.90	PM <sub>10</sub> (4)	0.20	
15-7	Furnace No. 2 Dust Pickup	PM <sub>10</sub> (4)	0.10	0.44
15-12	Vacuum Receiver	PM <sub>10</sub> (4)	0.02	0.09

(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) PM<sub>10</sub> - particulate matter equal to or less than 10 microns. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.

PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>.

VOC - volatile organic compounds as defined in General Rule 101.1

NO<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

CO - carbon monoxide

IPA - isopropanol

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- (4) Particulate matter emissions from the process.  
(5) Particulate matter emissions from combustion.  
(6) Particulate emissions from a standard exempted mixing operation  
are also routed through this bag collector.

\* 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 \_\_\_\_\_