

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

<u>Emission Rates *</u> Point No. (1)	Source Name (2)	Air Contaminant Name (3)		<u>Emission</u> lb/hr TPY	
4-06	Furnace No. 1 ESP Unit	PM ₁₀ (4)		0.29	1.28
		PM (5)		0.15	0.66
		NO _x		9.1	39.9
		SO ₂		0.06	0.26
		CO		0.81	3.55
		VOC	0.07	0.31	
4-07	Wet Fritting Baghouse	PM ₁₀ (4)		0.42	1.84
		PM (5)		0.19	0.84
		NO _x		1.29	5.67
		SO ₂		0.04	0.18
		CO		0.48	2.10
		VOC	0.04	0.18	
4-08	CCE Mill Baghouses	PM ₁₀ (4)		0.08	0.35
4-17A	Former No. 15 Baghouse	PM ₁₀ (4)		0.40	1.75
		PM (5)		0.10	0.44
		NO _x		1.17	5.12
		SO ₂		<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 _x		0.24	1.05
		SO ₂		<0.01	0.04
		CO		0.05	0.22
		VOC	<0.01	0.04	

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

<u>Emission Rates *</u> Point No. (1)	Source Name (2)	Air Contaminant Name (3)		<u>Emission</u> lb/hr TPY	
		CO		0.05	0.22
		VOC	<0.01	0.04	
4-20A	Bead Wash Dryer	PM ₁₀ (4)		0.10	0.44
	Baghouse (6)	ISA		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 _x		0.92	4.03
		SO ₂		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 _x		1.17	5.12
		SO ₂		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 _x		0.24	1.05
		SO ₂	0.02	0.09	
		CO	0.05	0.22	
		VOC	<0.01	0.02	
4-34	Former No. 19 Baghouse	PM ₁₀ (4)		0.40	1.75
		PM (5)		0.10	0.44
		NO _x		1.17	5.12
		SO ₂		<0.01	0.04
		CO		0.25	0.10

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

<u>Emission Rates *</u> Point No. (1)	Source Name (2)	Air Contaminant Name (3)		<u>Emission</u> lb/hr TPY	
		VOC	0.02	0.09	
4-34P	Former No. 19 Heat Treater	PM (5)	0.02	0.09	
		NO _x	0.24	1.05	
		SO ₂	<0.01	0.04	
		CO	0.05	0.22	
		VOC	<0.01	0.04	
4-35	Former No. 20 Baghouse	PM ₁₀ (4)	0.40	1.75	
		PM (5)	0.10	0.44	
		NO _x	1.17	5.12	
		SO ₂	<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 _x	0.24	1.05	
		SO ₂	<0.01	0.04	
		CO	0.05	0.22	
		VOC	<0.01	0.04	
4-43	Former No. 21 Baghouse	PM ₁₀ (4)	0.45	1.97	
		PM (5)	0.10	0.44	
		NO _x	1.17	5.12	
		SO ₂	<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 _x	0.24	1.05	

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Rates *	Source	Air Contaminant		Emission	
		Name (3)	lb/hr	TPY	
Point No. (1)	Name (2)				
		SO ₂	<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 ₁₀ (4)	1.34	5.87	
		PM (5)	0.30	1.31	
		NO _x	3.51	15.4	
		SO ₂	0.30	0.13	
		CO	1.10	4.82	
		VOC	0.06	0.26	
4-2324	Furnace No. 2 ESP Unit	PM ₁₀ (4)	1.43	6.27	
		PM (5)	0.15	0.66	
		NO _x	9.1	39.9	
		SO ₂	0.06	0.26	
		CO	0.81	3.55	
		VOC	0.07	0.31	
15-1	TCP Drier Baghouse	PM/PM ₁₀ (4)	1.40	6.13	
15-2	Dust Pickup Baghouse	PM/PM ₁₀ (4)	0.16	0.70	
15-3	Filter Receiver Baghouse	PM/PM ₁₀ (4)	0.10	0.40	
15-4	Bag Collector (6)	PM ₁₀ (4)	0.33	1.45	
15-5	Hopper Baghouse	PM ₁₀ (4)	0.20	0.90	
15-6	Hopper Baghouse 0.90	PM ₁₀ (4)	0.20		

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

15-7	Furnace No. 2 Dust Pickup	PM ₁₀ (4)	0.10	0.44
15-12	Vacuum Receiver	PM ₁₀ (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) PM₁₀ - particulate matter less than 10 microns.

PM - particulate matter

VOC - volatile organic compounds as defined in General Rule 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

CO - carbon monoxide

- (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

Permit No. 23344
Page 7

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Dated_____