

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 23344

This table lists the maximum allowable emission rates for all sources of air contaminants covered by this permit.

## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
(7)				
4-01	Furnace No. 1 ESP Unit (8)	PM <sub>10</sub> (4)	0.29	1.28
		PM (5)	0.15	0.66
		NO <sub>x</sub>	9.1	39.9
		SO <sub>2</sub>	0.06	0.26
		CO	0.81	3.55
		VOC	0.07	0.31
4-06	Furnace No. 3 ESP Unit (8)	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 Nos. 13 and 14 Baghouses	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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY(7)
4-17B	Former No. 16 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
4-17BP	Former No. 16 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
4-18	Former No. 17 ESP	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
		VOC	0.02	0.09
4-19	Former No. 18 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
4-19P	Former No. 18 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 Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY(7)
4-20A	Bead Wash Dryer Baghouse (6)	PM <sub>10</sub> (4)	0.10	0.44
		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
4-35	Former No. 20 Baghouse	PM <sub>10</sub> (4)	0.40	1.75

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY(7)
		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. 15 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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		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	PM <sub>10</sub> (4)	0.20	0.90
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 a plot plan.

(2) Specific point source names. For fugitive sources use area name or fugitive source name.

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

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.

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

CO - carbon monoxide

IPA - isopropanol

(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.

(7) Annual Emissions are based on a rolling 12-month average.

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(8) Furnace No. 1 and Furnace No. 3 may not operate at the same time.

- \* 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 December 6, 2002