

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) (7)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
4-01	Furnace No. 1 ESP Unit (8)	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	
4-06	Furnace No. 3 ESP Unit (8)	PM ₁₀ (4)	1.25	5.48
		PM (5)	0.07	0.31
		NO _x	9.1	39.9
		SO ₂	0.06	0.05
		CO	2.5	11.0
		VOC	0.08	0.35
4-06A	Furnace No. 3 Dust-Pickup Baghouse	PM ₁₀	0.1	0.5
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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)lb/hr	<u>Emission Rates *</u>	
			TPY(7)	
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
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	PM (5)	0.02	0.09

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY(7)
	Treater	NO _x	0.24	1.05
		SO ₂	<0.01	0.04
		CO	0.05	0.22
		VOC	<0.01	0.04
4-20A	Bead Wash Dryer	PM ₁₀ (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 _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	1.10
		VOC	0.02	0.09
4-34P	Former No. 19 Heat	PM (5)	0.02	0.09
	Treater	NO _x	0.24	1.05

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY(7)
		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
		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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY(7)
		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	PM ₁₀ (4)	0.20	0.90
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) PM - particulate matter, suspended in the atmosphere, including PM₁₀.

PM₁₀ - 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

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NO_x - total oxides of nitrogen

SO₂ - 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.

(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 October 16, 2002