

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	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
(7)				
4-06	Furnace No. 1 ESP Unit	PM ₁₀ (4)	0.29	1.28
		PM (5)	0.15	0.66
		NO _x	9.10	39.90
		SO ₂	0.06	0.26
		CO	0.81	3.55
		VOC	0.07	0.31
4-06	Furnace No. 3 ESP Unit	PM ₁₀ (4)	1.25	5.48
		PM (5)	0.07	0.31
		NO _x	9.10	39.90
		SO ₂	0.06	0.05
		CO	2.50	11.00
		VOC	0.08	0.35
4-06A	Furnace No. 1 Dust-Pickup Baghouse	PM ₁₀	0.10	0.50
4-2324	Furnace No. 2 ESP Unit	PM ₁₀ (4)	1.43	6.27
		PM (5)	0.15	0.66
		NO _x	9.10	39.90
		SO ₂	0.06	0.26
		CO	0.81	3.55
		VOC	0.07	0.31
4-07	Wet Fritting Baghouse (2 Cyclones, Agglomerator, and Small Mill)	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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY (7)
4-17A	Former Nos. 13 and 14 Baghouses	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
4-17B	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	1.10	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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY (7)
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
		CO	0.05	0.22
		VOC	<0.01	0.04
4-20A	Bead Wash Dryer Baghouse (6)	PM ₁₀ (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 _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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			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
4-35	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. 15 and 22	PM ₁₀ (4)	1.34	5.87
		PM (5)	0.30	1.31
		NO _x	3.51	15.40

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		CO	SO ₂	1.10	0.30	0.13
			VOC		4.82	
					0.06	0.26
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 a plot plan.

(2) Specific point source names.

(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

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 these

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emission points.

(7) Annual rates are based on a rolling 12 consecutive months.

Dated March 29, 2004