

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

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

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Permit Number 23344

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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			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	
4-06A	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	

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			lb/hr	TPY (7)
		VOC	0.04	0.18
4-08	CCE Mill Baghouses	PM ₁₀ (4)	0.08	0.35
4-17A	Former No. 13 2.4 MMBtu/hr Exhausted Through a 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	1.10	
		VOC	0.02	0.09
4-17C	Former No. 14 2.4 MMBtu/hr Exhausted Through a 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
4-17B	Former No. 16 ESP	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
4-18	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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY (7)
		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
		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	Former No. 11 Heat Treater	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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY (7)
		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 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
		SO ₂	<0.01	0.04
		CO	0.05	0.22
		VOC	<0.01	0.04
4-0944	ESP Unit for Former	PM ₁₀ (4)	1.34	5.87

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY (7)
	Nos. 15 and 22	PM (5)	0.30	1.31
		NO _x 3.51	15.40	
		SO ₂	0.30	0.13
		CO 1.10	4.82	
		VOC	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
4SCEOVEN1 and 4SCEOVEN2 and 4SCEOVEN3	Electrically Heated Sand Core Element Belt Furnace	VOC	4.74	20.85
		Exempt Solvent	4.74	20.85
4SCEGExh1	Mixer/Feeder Baghouse	VOC	0.02	0.09
		Exempt Solvent	0.02	0.09
		PM <0.001	<0.001	
4SCEGExh2	Surface Treatment Baghouse	VOC	0.02	0.09
		Exempt Solvent	0.02	0.09
		PM <0.001	<0.001	
4SCEFUG		VOC	0.31	1.36
		Exempt Solvent	0.31	1.36

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PM/PM₁₀ <0.001 <0.001

- (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 in emitted.
 - NO_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - CO - carbon monoxide
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code
- § 101.1
 - IPA - isopropanol
 - Exempt Solvent
 - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of VOC.
- (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 emission points.
- (7) Annual rates are based on a rolling 12 consecutive months.

Dated March 9, 2007