Emission Sources - Maximum Allowable Emission Rates

Permit Number 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, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7)	
			lbs/hour	TPY (4)
4-06	Furnace No. 1 ESP Unit	PM_{10} (5)	0.29	1.28
		PM (6)	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} (5)	1.43	6.27
		PM (6)	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 and Agglomerator)	PM_{10} (5)	0.42	1.84
		PM (6)	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} (5)	0.08	0.35

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4-17A	Former No. 13 2.4 MMBtu/hr Exhausted Through a Baghouse	PM_{10} (5)	0.40	1.75
		PM (6)	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
4-17C	Former No. 14 2.4 MMBtu/hr Exhausted Through a Baghouse	PM_{10} (5)	0.40	1.75
		PM (6)	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} (5)	0.40	1.75
		PM (6)	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} (5)	0.45	1.97
		PM (6)	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} (5)	0.40	1.75

Emission Sources - Maximum Allowable Emission Rates

		PM (6)	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
		CO	0.05	0.22
		VOC	<0.01	0.04
4-20A	Bead Wash Dryer Baghouse (8)	PM_{10} (5)	0.01	0.44
		Isopropanol	0.70	3.03
		Acetone	0.13	0.55
		Chloroacetone	0.37	1.63
4-20B	Bead Wash Dryer(8)	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_{10} (5)	0.45	2.00
		PM (6)	0.10	0.44
		NO_x	1.17	5.12
		SO_2	0.02	0.09
		CO	0.05	1.10
		VOC	<0.01	0.09

Emission Sources - Maximum Allowable Emission Rates

4-44P	Former No. 11 Heat Treater	PM (6)	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
4-34	Former No. 19 Baghouse	PM_{10} (5)	0.40	1.75
		PM (6)	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 Treater	PM (6)	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} (5)	0.40	1.75
		PM (6)	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 (6)	0.02	0.09
		NO_x	0.24	1.05
		SO_2	<0.01	0.04

Emission Sources - Maximum Allowable Emission Rates

		CO	0.05	0.22
		VOC	<0.01	0.04
4-43	Former No. 21 Baghouse	PM_{10} (5)	0.45	1.97
		PM (6)	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 (6)	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	Former Nos. 15 and 22 ESP	PM_{10} (5)	1.34	5.87
		PM (6)	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 (5)	1.40	6.13
		PM_{10} (5)	1.40	6.13
15-2	Dust Pickup Baghouse	PM (5)	0.16	0.70
		PM_{10} (5)	0.16	0.70
15-3	Filter Receiver Baghouse	PM (5)	0.10	0.40
		PM_{10} (5)	0.10	0.40

Emission Sources - Maximum Allowable Emission Rates

15-4	Bag Collector (8)	PM_{10} (5)	0.33	1.45
15-5	Hopper Baghouse	PM_{10} (5)	0.20	0.90
15-6	Hopper Baghouse	PM_{10} (5)	0.20	0.90
15-7	Furnace No. 2 Dust Pickup	PM_{10} (5)	0.10	0.44
4SCEOVEN1, 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
		PM_{10}	<0.001	<0.001
4SCEGExh1A	Blending Baghouse	PM	0.02	0.09
		PM_{10}	0.02	0.09
4SCEGExh2	Surface Treatment Baghouse	VOC	0.02	0.09
		Exempt Solvent	0.02	0.09
		PM	<0.001	<0.001
		PM_{10}	<0.001	<0.001
4SCEFUG	Sand Core Element Fugitives	VOC	0.31	1.36
		Exempt Solvent	0.31	1.36
		PM	<0.001	<0.001
		PM_{10}	<0.001	<0.001

(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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide

Emission Sources - Maximum Allowable Emission Rates

PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
(5) PM/PM_{10} emissions from the process.
(6) PM/PM_{10} emissions from combustion.
(7) Planned startup and shutdown activities are included in the allowable emission rates for all sources covered by this permit. Emissions from planned maintenance activities are authorized using Permits by Rule or de Minimis as noted in Attachment I to the permit.
(8) Particulate matter emissions from a mixing operation covered by a Standard Exemption are also routed through these emission points.

Date: December 16, 2013