

## Emission Sources - Maximum Allowable Emission Rates

Permit Number 2718

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 (9)	
			lbs/hour	TPY (4)
CHF	Cullet Handling Fugitives (Rail and Truck Unloading, Stockpile, and Transfer to Crusher Feed Hopper)	PM	0.12	0.53
		PM <sub>10</sub>	0.05	0.24
1 (7)	Furnace A Stack	PM	16.00	70.10
		PM <sub>10</sub>	16.00	70.10
		VOC	0.40	1.80
		CO	5.50	24.10
		NO <sub>x</sub>	75.30	329.80
		SO <sub>2</sub>	38.50	168.60
		H <sub>2</sub> SO <sub>4</sub>	7.00	30.70
		HCl	0.50	2.20
		Pb	0.03	0.11
1 (8)	Furnace A Stack	PM	8.38	36.72
		PM <sub>10</sub>	8.32	36.45
		PM <sub>2.5</sub>	8.32	36.45
		VOC	0.40	1.80
		CO	5.50	24.10
		NO <sub>x</sub>	24.64	92.56
		SO <sub>2</sub>	30.27	61.71
		H <sub>2</sub> SO <sub>4</sub>	2.64	11.56

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		HCl	0.50	2.20
		Pb	0.03	0.11
		NH <sub>3</sub>	0.68	2.97
55A	Furnace A Refiner Fugitives	PM	0.03	0.13
		PM <sub>10</sub>	0.03	0.13
		PM <sub>2.5</sub>	0.03	0.13
		VOC	0.02	0.09
		CO	0.32	1.41
		NO <sub>x</sub>	0.38	1.67
		SO <sub>2</sub>	0.01	0.01
56A (7)	Furnace A Alcoves and Forehearths Fugitives	PM	0.05	0.22
		PM <sub>10</sub>	0.05	0.22
		PM <sub>2.5</sub>	0.05	0.22
		VOC	0.04	0.16
		CO	0.56	2.45
		NO <sub>x</sub>	0.67	2.92
		SO <sub>2</sub>	0.01	0.02
56A (8)	Furnace A Alcoves and Forehearths Fugitives	PM	0.07	0.30
		PM <sub>10</sub>	0.07	0.30
		PM <sub>2.5</sub>	0.07	0.30
		VOC	0.05	0.22
		CO	0.76	3.34
		NO <sub>x</sub>	0.91	3.98
		SO <sub>2</sub>	0.01	0.02
58A (7)	Furnace A Forming Machines Fugitives	PM	0.77	3.35

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		PM <sub>10</sub>	0.77	3.35
		PM <sub>2.5</sub>	0.77	3.35
58A (8)	Furnace A Forming Machines Fugitives	PM	0.88	3.87
		PM <sub>10</sub>	0.88	3.87
		PM <sub>2.5</sub>	0.88	3.87
2	Furnace B Stack	PM	13.10	57.50
		PM <sub>10</sub>	13.10	57.50
		VOC	2.63	11.50
		CO	2.63	11.50
		NO <sub>x</sub>	81.40	356.00
		SO <sub>2</sub>	44.60	195.00
		H <sub>2</sub> SO <sub>4</sub>	10.32	45.20
		HCl	0.36	1.58
		Pb	0.02	0.10
55B	Furnace B Refiner Fugitives	PM	0.02	0.10
		PM <sub>10</sub>	0.02	0.10
		PM <sub>2.5</sub>	0.02	0.10
		VOC	0.02	0.08
		CO	0.26	1.15
		NO <sub>x</sub>	0.31	1.37
		SO <sub>2</sub>	0.01	0.01
56B	Furnace B Alcoves and Forehearths Fugitives	PM	0.05	0.23
		PM <sub>10</sub>	0.05	0.23
		PM <sub>2.5</sub>	0.05	0.23
		VOC	0.04	0.16

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		CO	0.57	2.49
		NO <sub>x</sub>	0.68	2.96
		SO <sub>2</sub>	0.01	0.02
58B	Furnace B Forming Machines Fugitives	PM	0.66	2.89
		PM <sub>10</sub>	0.66	2.89
		PM <sub>2.5</sub>	0.66	2.89
4 (5)	Furnace D Stack	PM	30.38	134.90
		PM <sub>10</sub>	30.38	134.90
		VOC	0.20	0.90
		CO	8.90	39.00
		NO <sub>x</sub>	121.70	533.00
		SO <sub>2</sub>	61.20	268.00
		H <sub>2</sub> SO <sub>4</sub>	10.90	47.70
		HCl	0.40	1.80
		Pb	0.03	0.12
4 (6)	Furnace D Stack	PM	9.28	40.60
		PM <sub>10</sub>	9.21	40.30
		PM <sub>2.5</sub>	9.21	40.30
		VOC	0.20	0.90
		CO	3.90	17.10
		NO <sub>x</sub>	27.30	102.30
		SO <sub>2</sub>	33.54	68.20
		H <sub>2</sub> SO <sub>4</sub>	3.40	14.90
		HCl	0.53	2.30
		Pb	0.02	0.09

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		NH <sub>3</sub>	0.75	3.30
55D	Furnace D Refiner Fugitives	PM	0.03	0.13
		PM <sub>10</sub>	0.03	0.13
		PM <sub>2.5</sub>	0.03	0.13
		VOC	0.02	0.10
		CO	0.34	1.48
		NO <sub>x</sub>	0.40	1.76
		SO <sub>2</sub>	0.01	0.01
56D (5)	Furnace D Alcoves and Forehearths Fugitives	PM	0.04	0.18
		PM <sub>10</sub>	0.04	0.18
		PM <sub>2.5</sub>	0.04	0.18
		VOC	0.03	0.13
		CO	0.46	2.02
		NO <sub>x</sub>	0.55	2.40
		SO <sub>2</sub>	0.01	0.01
56D (6)	Furnace D Alcoves and Forehearths Fugitives	PM	0.06	0.27
		PM <sub>10</sub>	0.06	0.27
		PM <sub>2.5</sub>	0.06	0.27
		VOC	0.05	0.20
		CO	0.69	3.03
		NO <sub>x</sub>	0.82	3.61
		SO <sub>2</sub>	0.01	0.02
58D (5)	Furnace D Forming Machines Fugitives	PM	0.84	3.67
		PM <sub>10</sub>	0.84	3.67
		PM <sub>2.5</sub>	0.84	3.67

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58D (6)	Furnace D Forming Machines Fugitives	PM	0.98	4.28
		PM <sub>10</sub>	0.98	4.28
		PM <sub>2.5</sub>	0.98	4.28
7	Grit Blast Fugitives	PM	0.02	0.10
		PM <sub>10</sub>	0.02	0.10
8	Grit Blast Fugitives	PM	0.02	0.10
		PM <sub>10</sub>	0.02	0.10
18A - 18D	Raw Material Receiving Batch and Mixing Baghouse Stacks	PM	2.48	12.00
		PM <sub>10</sub>	2.48	12.00
18E	Iron Chromite Surge Hopper Baghouse Stack	PM	0.02	<0.01
		PM <sub>10</sub>	0.02	<0.01
57	Shear Spray Fugitives	VOC	2.00	8.75
59A	Lehr Fugitives	PM	0.30	1.31
		PM <sub>10</sub>	0.30	1.31
		PM <sub>2.5</sub>	0.30	1.31
		VOC	0.22	0.94
		CO	3.29	14.43
		NO <sub>x</sub>	3.92	17.18
		SO <sub>2</sub>	0.02	0.10
59B	Belt Heater Fugitives	PM	0.01	0.07
		PM <sub>10</sub>	0.01	0.07
		PM <sub>2.5</sub>	0.01	0.07
		VOC	0.01	0.05
		CO	0.16	0.72
		NO <sub>x</sub>	0.20	0.86

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		SO <sub>2</sub>	0.01	0.01
19	Hot End Surface Treatment Baghouse Stack	PM	0.46	2.07
		PM <sub>10</sub>	0.46	2.07
		NH <sub>3</sub>	2.86	12.50
		HCl	0.04	0.17
		VOC	0.72	3.15
71	Bottle Coder Fugitives	VOC	0.21	0.93
72	Glue Pot Fugitives	VOC	0.45	1.97
73	Carton Coder Fugitives	VOC	0.15	0.66
30	Reagent Silo Dust Collector Stack	PM	0.12	0.01
		PM <sub>10</sub>	0.12	0.01
		PM <sub>2.5</sub>	0.12	0.01
31	ESP Dust Silo Dust Collector Stack	PM	0.02	0.09
		PM <sub>10</sub>	0.02	0.09
		PM <sub>2.5</sub>	0.02	0.09
35	Emergency Generator Stack	PM	0.85	0.04
		PM <sub>10</sub>	0.71	0.04
		PM <sub>2.5</sub>	0.69	0.04
		VOC	0.58	0.03
		CO	13.50	0.68
		NO <sub>x</sub>	24.11	1.21
		SO <sub>2</sub>	0.03	<0.01
70	Oil/Water Separator Fugitives	VOC	1.2	5.26
74	Cooling Tower Vents	PM	0.40	1.75
		PM <sub>10</sub>	0.30	1.31

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		PM <sub>2.5</sub>	0.30	1.31
75	Parts Washer Fugitives	VOC	0.22	0.97
MSS-A	Furnace A MSS	PM	12.41	2.00
		PM <sub>10</sub>	11.80	2.00
		PM <sub>2.5</sub>	11.31	2.00
		NO <sub>x</sub>	73.75	36.00
		SO <sub>2</sub>	78.67	38.00
		H <sub>2</sub> SO <sub>4</sub>	8.60	5.00
MSS-D	Furnace D MSS	PM	31.07	4.00
		PM <sub>10</sub>	29.51	4.00
		PM <sub>2.5</sub>	28.25	4.00
		NO <sub>x</sub>	116.43	56.00
		SO <sub>2</sub>	124.27	60.00
		H <sub>2</sub> SO <sub>4</sub>	13.59	7.00

- (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) 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
- PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented
- PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented
- PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- H<sub>2</sub>SO<sub>4</sub> - sulfuric acid
- HCl - hydrogen chloride
- Pb - lead as particulate matter
- NH<sub>3</sub> - ammonia
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Effective prior to installation and commencing operation of all control devices and rebuilding of alcoves, forehearths, and forming machines represented in the 2012 Amendment Application.
- (6) Effective after installation and commencing operation of all control devices and rebuilding of alcoves, forehearths, and forming machines represented in the 2012 Amendment Application.



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- (7) Effective prior to installation and commencing operation of all control devices and rebuilding of alcoves, forehearths, and forming machines represented in the 2013 Amendment Application.
- (8) Effective after installation and commencing operation of all control devices and rebuilding of alcoves, forehearths, and forming machines represented in the 2013 Amendment Application.
- (9) Planned startup and shutdown emissions are included. Maintenance activities, except as specified in Special Condition Nos. 25 through 29, are not authorized by this permit and will need separate authorization, unless the activity can meet the conditions of 30 TAC § 116.119.

Date: October 21, 2013