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 (5)	
			lbs/hour	TPY (4)
CHF	Cullet Handling Fugitives (Rail and Truck Unloading, Stockpile, and Transfer to Crusher Feed Hopper) (6)	PM	0.12	0.53
		PM_{10}	0.05	0.24
		$PM_{2.5}$	0.05	0.24
TRACKBLDG	Track Shed Building Fugitives (Bulk Bag Unloader Dust Collector, Premix Material Batch Scale Dust Sock, and Premix Blending Dust Collector) (6)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
BATCHHOUSE	Batch House Fugitives for Minor Raw Material Ingredients (Premix Transport Dust Collector) (6)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
1	Furnace A Stack	PM	8.38	36.72
		PM_{10}	8.32	36.45
		$PM_{2.5}$	8.32	36.45
		VOC	0.40	1.80
		CO	5.50	24.10
		NO_x	24.64	92.56
		SO_2	30.27	61.71
		H_2SO_4	2.64	11.56
		HCl	0.50	2.20
		Pb	0.03	0.11
		NH_3	0.68	2.97
55A	Furnace A Refiner Fugitives (6)	PM	0.03	0.13
		PM_{10}	0.03	0.13

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.03	0.13
		VOC	0.02	0.09
		CO	0.32	1.41
		NO_x	0.38	1.67
		SO_2	0.01	0.01
56A	Furnace A Alcoves and Forehearths Fugitives (6)	PM	0.07	0.30
		PM_{10}	0.07	0.30
		$PM_{2.5}$	0.07	0.30
		VOC	0.05	0.22
		CO	0.76	3.34
		NO_x	0.91	3.98
		SO_2	0.01	0.02
58A	Furnace A Forming Machines Fugitives (6)	PM	0.88	3.87
		PM_{10}	0.88	3.87
		$PM_{2.5}$	0.88	3.87
		VOC	0.88	3.87
2	Furnace B Stack	PM	7.81	34.15
		PM_{10}	7.75	33.90
		$PM_{2.5}$	7.75	33.90
		VOC	2.63	11.50
		CO	2.76	12.09
		NO_x	22.96	86.08
		SO_2	28.21	57.39
		H_2SO_4	2.99	13.07
		HCl	0.36	1.58
		Pb	0.02	0.10
		NH_3	0.64	2.81
55B	Furnace B Refiner Fugitives (6)	PM	0.03	0.11

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.03	0.11
		$PM_{2.5}$	0.03	0.11
		VOC	0.02	0.08
		CO	0.29	1.26
		NO_x	0.34	1.50
		SO_2	0.01	0.01
56B	Furnace B Alcoves and Forehearths Fugitives (6)	PM	0.06	0.28
		PM_{10}	0.06	0.28
		$PM_{2.5}$	0.06	0.28
		VOC	0.05	0.21
		CO	0.72	3.14
		NO_x	0.85	3.74
		SO_2	0.01	0.02
58B	Furnace B Forming Machines Fugitives (6)	PM	0.85	3.73
		PM_{10}	0.85	3.73
		$PM_{2.5}$	0.85	3.73
		VOC	0.85	3.73
4	Furnace D Stack	PM	9.28	40.60
		PM_{10}	9.21	40.30
		$PM_{2.5}$	9.21	40.30
		VOC	0.20	0.90
		CO	3.90	17.10
		NO_x	27.30	102.30
		SO_2	33.54	68.20
		H_2SO_4	3.40	14.90
		HCl	0.53	2.30
		Pb	0.02	0.09
		NH_3	0.75	3.30

Emission Sources - Maximum Allowable Emission Rates

55D	Furnace D Refiner Fugitives (6)	PM	0.03	0.13
		PM_{10}	0.03	0.13
		$PM_{2.5}$	0.03	0.13
		VOC	0.02	0.10
		CO	0.34	1.48
		NO_x	0.40	1.76
		SO_2	0.01	0.01
56D	Furnace D Alcoves and Forehearths Fugitives (6)	PM	0.06	0.27
		PM_{10}	0.06	0.27
		$PM_{2.5}$	0.06	0.27
		VOC	0.05	0.20
		CO	0.69	3.03
		NO_x	0.82	3.61
		SO_2	0.01	0.02
58D	Furnace D Forming Machines Fugitives (6)	PM	0.98	4.28
		PM_{10}	0.98	4.28
		$PM_{2.5}$	0.98	4.28
		VOC	0.98	4.28
7	Grit Blast Fugitives (6)	PM	0.02	0.10
		PM_{10}	0.02	0.10
		$PM_{2.5}$	0.02	0.10
8	Grit Blast Fugitives (6)	PM	0.02	0.10
		PM_{10}	0.02	0.10
		$PM_{2.5}$	0.02	0.10
18A - 18D	Raw Material Receiving Batch and Mixing Baghouse Stacks	PM	2.48	12.00
		PM_{10}	2.48	12.00
		$PM_{2.5}$	2.48	12.00
18E	Minor Raw Material Surge Hopper	PM	0.02	<0.01

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.02	<0.01
		$PM_{2.5}$	0.02	<0.01
57	Shear Spray Fugitives (6)	VOC	2.00	8.75
59A	Lehr Fugitives (6)	PM	0.30	1.31
		PM_{10}	0.30	1.31
		$PM_{2.5}$	0.30	1.31
		VOC	0.22	0.94
		CO	3.29	14.43
		NO_x	3.92	17.18
		SO_2	0.02	0.10
59B	Belt Heater Fugitives (6)	PM	0.01	0.07
		PM_{10}	0.01	0.07
		$PM_{2.5}$	0.01	0.07
		VOC	0.01	0.05
		CO	0.16	0.72
		NO_x	0.20	0.86
		SO_2	0.01	0.01
19	Hot End Surface Treatment Baghouses Stack	PM	0.46	2.07
		PM_{10}	0.46	2.07
		$PM_{2.5}$	0.46	2.07
		NH_3	2.86	12.50
		HCl	0.04	0.17
		VOC	0.72	3.15
71	Bottle Coder Fugitives (6)	VOC	0.21	0.93
72	Glue Pot Fugitives (6)	VOC	0.45	1.97
73	Carton Coder Fugitives (6)	VOC	0.15	0.66
30	Reagent Silo Dust Collector Stack	PM	0.12	0.01
		PM_{10}	0.12	0.01

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.12	0.01
31	ESP Dust Silo Dust Collector Stack	PM	0.02	0.09
		PM_{10}	0.02	0.09
		$PM_{2.5}$	0.02	0.09
35	Emergency Generator Stack	PM	0.85	0.04
		PM_{10}	0.71	0.04
		$PM_{2.5}$	0.69	0.04
		VOC	0.58	0.03
		CO	13.50	0.68
		NO_x	24.11	1.21
		SO_2	0.03	<0.01
70	Oil/Water Separator Fugitives (6)	VOC	1.2	5.26
74	Cooling Tower Vents	PM	0.40	1.75
		PM_{10}	0.30	1.31
		$PM_{2.5}$	0.30	1.31
75	Parts Washer Fugitives (6)	VOC	0.22	0.97
MSS-A	Furnace A MSS	PM	12.41	2.00
		PM_{10}	11.80	2.00
		$PM_{2.5}$	11.31	2.00
		NO_x	73.75	36.00
		SO_2	78.67	38.00
		H_2SO_4	8.60	5.00
MSS-B	Furnace B MSS	PM	7.00	1.00
		PM_{10}	6.60	1.00
		$PM_{2.5}$	6.30	1.00
		NO_x	68.60	33.00
		SO_2	36.60	21.00
		H_2SO_4	4.80	2.30

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MSS-D	Furnace D MSS	PM	31.07	4.00
		PM_{10}	29.51	4.00
		$PM_{2.5}$	28.25	4.00
		NO_x	116.43	56.00
		SO_2	124.27	60.00
		H_2SO_4	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_x - total oxides of nitrogen
SO_2 - sulfur dioxide
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
H_2SO_4 - sulfuric acid
HCl - hydrogen chloride
Pb - lead as particulate matter
NH_3 - ammonia
(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
(5) Planned startup and shutdown emissions are included. Maintenance activities, except as specified in Special Condition Nos. 27 through 31, are not authorized by this permit and will need separate authorization, unless the activity can meet the conditions of 30 TAC § 116.119.
(6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: November 10, 2016