

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 8097/PSD-TX-138M5

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. 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 *	
			lb/hr	TPY
01	Meltshop Overhead Canopy Hoods Baghouse "A" Stack (Positive Pressure 289.9 Baghouse) (6)	TSP	13.0	51.8
		PM ₁₀	13.0	51.8
		CO		72.5
		NO _x	4.3	17.1
		SO ₂	4.3	17.0
		VOC	27.1	108.3
		Pb	0.039	0.16
		Hg	0.0027	0.011
		Cr	0.00097	0.0039
		Cd	0.0015	0.0058
02	Bar Mill Reheat Furnace	TSP	0.70	3.10
		PM ₁₀	0.70	3.10
		NO _x	77.00	340.00
		CO	5.60	25.00
		SO ₂	0.08	0.37
		VOC	0.20	0.86
04A	Meltshop Roof Monitor Monovent "A"	TSP	3.1	12.5
		PM ₁₀	3.1	12.5
		CO	2.0	8.0
		NO _x	0.12	0.47
		SO ₂	0.12	0.47
		VOC	0.75	3.01
		Pb	0.063	0.25
		Hg	0.000046	0.00018
		Cr	0.0026	0.010
		Cd	0.0020	0.008

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
04B	Meltshop Roof Monitor Monovent "B"	TSP	3.1	12.5
		PM ₁₀	3.1	12.5
		CO	2.0	8.0
		NO _x	0.12	0.47
		SO ₂	0.12	0.47
		VOC	0.75	3.01
		Pb	0.063	0.25
		Hg	0.000046	0.00018
		Cr	0.0026	0.010
		Cd	0.0020	0.008
05	Medium Section Mill Reheat Furnace	TSP	4.30	10.00
		PM ₁₀	4.30	10.00
		NO _x	65.70	154.00
		CO	10.70	25.00
		SO ₂	15.40	36.00
		VOC	2.10	5.00
06	Meltshop Overhead Canopy Hoods Baghouse "B" Stack(6)	TSP	21.9	87.4
		PM ₁₀	21.9	87.4
		CO	124.6	498.3
		NO _x	7.3	29.4
		SO ₂	7.3	29.3
		VOC	46.6	186.2
		Pb	0.067	0.27
		Hg	0.0046	0.018
		Cr	0.0017	0.0067
		Cd	0.0025	0.010
07	Furnaces "A" and "B" 4th Hole Evacuation System Baghouse "C" Stack	TSP	17.4	69.5
		PM ₁₀	17.4	69.5
		CO	254.4	1017.4
		NO _x	59.8	239.2

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			lb/hr	TPY
		SO ₂	27.1	108.4
		VOC	21.4	85.5
		Pb	0.022	0.087
		Hg	0.10	0.42
		Cr	0.0021	0.0083
		Cd	0.0013	0.0050
09	Large Section Mill Reheat Furnace (5)	TSP	0.70	3.10
		PM ₁₀	0.70	3.10
		NO _x	26.00	113.90
		SO ₂	2.00	8.80
		CO	5.60	24.50
		VOC	0.20	0.90
08	Air Cascade Separator Auto Shredder Primary Collection System	TSP	5.00	2.20
		PM ₁₀	5.00	2.20
10A	Meltshop Roof Monitor Monovent "A"	TSP	0.19	0.86
		PM ₁₀	0.19	0.86
		CO	0.34	1.51
		NO _x	1.62	7.21
		SO ₂	0.23	0.04
		VOC	0.09	0.38
10B	Meltshop Roof Monitor Monovent "B"	TSP	0.19	0.86
		PM ₁₀	0.19	0.86
		CO	0.34	1.51
		NO _x	1.62	7.21
		SO ₂	0.23	0.04
		VOC	0.09	0.38
10C	Meltshop Sidewall Vent	TSP	0.23	1.14
		PM ₁₀	0.23	1.14
		CO	0.40	1.99
		NO _x	1.91	9.47
		SO ₂	0.27	0.06
		VOC	0.10	0.50

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			lb/hr	TPY
11A	Outdoor Alloy Handling (4) 0.0073	TSP		0.0019
		PM ₁₀	0.00089	0.0035
11B	Indoor Alloy Handling Monovent "A"	TSP	0.00019	0.00075
		PM ₁₀	0.000089	0.00035
12	Scrap Steel Handling (4)	TSP	0.4	1.7
		PM ₁₀	0.2	0.8
13	Baghouse Dust Railcar Fugitives (4)	TSP	0.00047	0.0019
		PM ₁₀	0.00022	0.00089
		Pb	0.000012	0.000049
		Hg	0.000000007	
	0.000000003	Cr	0.000000081	0.0000032
		Cd	0.000000035	0.0000014
14	Alloy Piles (4)	TSP	0.079	0.064
		PM ₁₀	0.079	0.064
15A	Pelletizer Silo Baghouse Stack	TSP	0.0324	0.1296
		PM ₁₀	0.0324	0.1296
		Pb	0.00085	0.0034
		Hg	0.0000005	0.000002
		Cr	0.000055	0.00022
		Cd	0.000024	0.000095
15B	Railcar Loading From Pelletizer Silo (4)	TSP	0.00047	0.0019
		PM ₁₀	0.00022	0.00089
		Pb	0.000012	0.000049
		Hg	0.000000007	
	0.000000003	Cr	0.000000081	0.0000032
		Cd	0.000000035	0.0000014
16	Shredder Fugitives (4)	TSP	0.0056	0.014

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			lb/hr	TPY
		PM ₁₀	0.0024	0.006
17	Residue Transfer at Magnetic Separator (4)	TSP	0.010	0.026
		PM ₁₀	0.0049	0.012
18	Vibrating Screen (4)	TSP	0.34	0.84
		PM ₁₀	0.034	0.084
19	Residue Transfers at Metals Recovery (4)	TSP	0.052	0.130
		PM ₁₀	0.025	0.061
20A	Unprocessed Residue Storage Pile (4)	TSP	0.084	0.058
		PM ₁₀	0.084	0.058
20B	Processed Residue Storage Pile (4)	TSP	0.084	0.058
		PM ₁₀	0.084	0.058
21	In-Plant Vehicle Traffic (4)	TSP	---	34.8
		PM ₁₀	---	12.5

(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) TSP - total suspended particulate matter including PM₁₀

PM₁₀ - particulate matter less than 10 microns in diameter

CO - carbon monoxide

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

VOC - volatile organic compounds as defined in General Rule 101.1

Pb - lead and lead compounds

Hg - mercury and mercury compounds

Cr - chromium and chromium compounds

Cd - cadmium and cadmium compounds

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- (4) Fugitive emissions are an estimate only.
- (5) Hourly emissions are based on a maximum design firing rate of 120 MMBtu/hr, based on a lower heating value (LHV) of the fuel (i.e., natural gas). Annual emissions are based on firing the furnace for a maximum of 8,760 hrs/yr, during which the average firing rate will be less than equal to 60 MMBtu/hr (LHV).
- (6) Emissions collected in the canopy hood are combined in a mixing chamber before splitting to the two baghouses.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day 7 Days/week 52 Weeks/year or 8,000
Hrs/year

Dated_____