

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 8907

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		Air Contaminant		<u>Emission Rates *</u>	
	Name (2)	Name (3)	lb/hr	TPY		
SF1	Charge/Scrap Handling (4)			TSP	2.70	3.75
				PM ₁₀	1.62	2.25
SF2	Steel Melt (4)			TSP	1.48	2.05
				PM ₁₀	0.89	1.23
				CO	5.40	7.50
				NO _x	0.22	0.31
SF3	Steel Sand (4)			TSP	3.07	4.46
				PM ₁₀	0.52	0.88
				VOC	5.22	7.25
SF4	Steel Pour (4)			TSP	4.50	6.25
				PM ₁₀	4.50	6.25
SF5	Steel Cooling (4)			TSP	9.00	12.50
				PM ₁₀	9.00	12.50
SF6	Steel Shakeout (4)			TSP	2.88	4.00
				PM ₁₀	2.36	3.28
SF7	Steel Cleaning (4)			TSP	1.81	2.52
				PM ₁₀	0.18	0.25
SF8	Steel Cut-Off (4)			TSP	0.58	0.81
				PM ₁₀	0.19	0.27
SF9	Steel Grind (4)			TSP	4.54	6.31
				PM ₁₀	0.45	0.63
SF10	Steel Repair (4)			TSP	3.09	4.29
				PM ₁₀	1.50	2.08

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Emission (2)	Source Name (3)	Air Contaminant lb/hr TPY (4)	Emission Rates * Point No. (1)	Name
SF11	Steel Gas (4)	TSP	0.04	0.16
		PM ₁₀	0.04	0.16
		SO ₂	0.01	0.03
		NO _x	2.01	7.24
		CO	0.50	1.81
SF12	Steel Sand Tower (4)	TSP	0.07	0.23
		PM ₁₀	0.05	0.19
IF1	Iron Scrap (4)	TSP	4.50	12.60
		PM ₁₀	2.70	7.56
IF2	Iron Treat (4)	TSP	0.15	0.42
		PM ₁₀	0.06	0.17
IF3	Iron Pour (4)	TSP	1.05	2.94
		PM ₁₀	1.05	2.94
IF4	Iron Shakeout (4)	TSP	1.20	3.36
		PM ₁₀	0.84	2.35
IF5	Iron Melt (4)	TSP	0.34	0.95
		PM ₁₀	0.34	0.95
IF6	Iron Grind (4)	TSP	2.87	8.03
		PM ₁₀	0.29	0.80
68A	Steel Green Sand System Baghouse Stack	TSP	2.14	7.71
		PM ₁₀	2.14	7.71
68B	Air Set Sand/Shakeout Baghouse Stack	TSP	4.29	15.43
		PM ₁₀	4.29	15.43
68C	LC/SS Finishing Baghouse Stack	TSP	4.29	15.43
		PM ₁₀	4.29	15.43
68F	Steel Sand Cooler Baghouse Stack	TSP	0.34	1.23
		PM ₁₀	0.34	1.23

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<u>Emission (2)</u>	<u>Source Name (3)</u>	<u>Air Contaminant lb/hr TPY</u>	<u>Emission Rates *</u>	<u>Point No. (1)</u>	<u>Name</u>
68G	Steel Finishing Baghouse Stack	TSP PM ₁₀	4.29 4.29		15.43 15.43
68J	No. 1 Electric Arc Furnace Baghouse Stack	TSP PM ₁₀ CO NO _x	2.14 2.14 27.59 15.00	3	7.71 7.71 39.82 20.82
68K	Steel No. 10 Shotblast Baghouse Stack	TSP PM ₁₀	0.86 0.86		3.09 3.09
68L	No. 2 Electric Arc Furnace Baghouse Stack	TSP PM ₁₀ CO NO _x	1.93 1.93 27.59 15.00		6.94 6.94 39.82 20.82
68M	Steel Finishing Baghouse Stack	TSP PM ₁₀	4.29 4.29		15.43 15.43
68N	Steel No. 12 Shotblast Baghouse Stack	TSP PM ₁₀	4.11 4.11		14.81 14.81
BV	Bin Vents Baghouse Stacks	TSP PM ₁₀	0.05 0.05		0.19 0.19
47A/B	Iron No. 8 Unit Baghouse Stack	TSP PM ₁₀	8.91 8.91		32.09 32.09
47C	Iron Treat Baghouse Stack	TSP PM ₁₀	3.43 3.43		12.34 12.34
47D/E	Iron DISA Baghouse Stack	TSP PM ₁₀	12.00 12.00		43.20 43.20
47F	Iron Grind Baghouse	TSP PM ₁₀	1.15 1.15		4.13 4.13

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Emission (2)	Source Name (3)	Air Contaminant lb/hr TPY	Emission Rates *	Point No. (1)	Name
47H	Iron Grind Baghouse Stack	TSP PM ₁₀	1.15 1.15	4.13 4.13	
47L	Iron Melt (EIF) Baghouse Stack	TSP PM ₁₀	5.14 5.14	18.51 18.51	
47M	Iron Melt (EIF) Baghouse Stack	TSP PM ₁₀	5.14 5.14	18.51 18.51	
47N	Iron Grind Baghouse Stack	TSP PM ₁₀	0.06 0.06	0.21 0.21	
47P	Iron Bond Baghouse Stack	TSP PM ₁₀	3.09 3.09	11.11 11.11	
47Q	Iron No. 24 Unit Baghouse Stack	TSP PM ₁₀	8.57 8.57	30.86 30.86	
47R	Iron Grind Baghouse Stack	TSP PM ₁₀	0.19 0.19	0.68 0.68	
DCE	Iron Grind Baghouse Stack	TSP PM ₁₀	0.06 0.06	0.21 0.21	

- (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
VOC - volatile organic compounds as defined in General Rule 101.1
NO_x - total oxides of nitrogen
CO - carbon monoxide
SO₂ - sulfur dioxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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

schedule, maximum electric arc furnace (EAF) melt rates, and maximum electric induction furnace (EIF) melt rates:

Hrs/day 24 Days/week 6 Weeks/year 50

Maximum EAF Melt Rates: Tons/hour 9 Tons/year 25,000

Maximum EIF Melt Rates: Tons/hour 50 Tons/year 280,000

Dated_____

