

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 *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
SF1	Charge/Scrap Handling (4)	PM	2.70	3.75
		PM ₁₀	1.62	2.25
SF2	Steel Melt (4)	PM	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)	PM	3.07	4.46
		PM ₁₀	0.52	0.88
		VOC	5.22	7.25
SF4	Steel Pour (4)	PM ₁₀	4.50	6.25
SF5	Steel Cooling (4)	PM ₁₀	9.00	12.50
SF6	Steel Shakeout (4)	PM	2.88	4.00
		PM ₁₀	2.36	3.28
SF7	Steel Cleaning (4)	PM	1.81	2.52
		PM ₁₀	0.18	0.25
SF8	Steel Cutoff (4)	PM	0.58	0.81
		PM ₁₀	0.19	0.27
SF9	Steel Grind (4)	PM	4.54	6.31
		PM ₁₀	0.45	0.63

Permit No. 8907
Page 2

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
SF10	Steel Repair (4)	PM	3.09	4.29
		PM ₁₀	1.50	2.08
SF11	Steel Gas (4)	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)	PM	0.07	0.23
		PM ₁₀	0.05	0.19
IF1	Iron Scrap (4)	PM	4.50	12.60
		PM ₁₀	2.70	7.56
IF2	Iron Treat (4)	PM	0.15	0.42
		PM ₁₀	0.06	0.17
IF3	Iron Pour (4)	PM ₁₀	1.05	2.94
IF4	Iron Shakeout (4)	PM	1.20	3.36
		PM ₁₀	0.84	2.35
IF5	Iron Melt (4)	PM ₁₀	0.34	0.95
IF6	Iron Grind (4)	PM	2.87	8.03
		PM ₁₀	0.29	0.80
68A 7.71	Steel Green Sand System Baghouse Stack		PM ₁₀	2.14
68B	Air Set Sand/Shakeout Baghouse Stack	PM ₁₀	4.29	15.43
68C	LC/SS Finishing Baghouse		PM ₁₀	4.29

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
	15.43 Stack			
68F	Steel Sand Cooler Baghouse Stack	PM ₁₀	0.34	1.23
68G 15.43	Steel Finishing Baghouse Stack		PM ₁₀	4.29
68J	No. 1 Electric Arc Furnace Baghouse Stack 39.82	PM ₁₀	2.14	7.71
		CO		27.59
		NO _x	15.00	20.82
68K	Steel No. 10 Shotblast Baghouse Stack	PM ₁₀	0.86	3.09
68L	No. 2 Electric Arc Furnace Baghouse Stack 39.82	PM ₁₀	1.93	6.94
		CO		27.59
		NO _x	15.00	20.82
68M 15.43	Steel Finishing Baghouse Stack		PM ₁₀	4.29
68N	Steel No. 12 Shotblast Baghouse Stack	PM ₁₀	4.11	14.81
BV	Bin Vents Baghouse Stacks	PM ₁₀	0.05	0.19
47A/B	Iron No. 8 Unit Baghouse Stack	PM ₁₀	8.91	32.09

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
47C	Iron Treat Baghouse Stack	PM ₁₀	3.43	12.34
47D/E	Iron DISA Baghouse Stack	PM ₁₀	12.00	43.20
47F	Iron Grind Baghouse	PM ₁₀	1.15	4.13
47H	Iron Grind Baghouse Stack	PM ₁₀	1.15	4.13
47L	Iron Melt (EIF) Baghouse Stack	PM ₁₀	5.14	18.51
47M	Iron Melt (EIF) Baghouse Stack	PM ₁₀	5.14	18.51
47N	Iron Grind Baghouse Stack	PM ₁₀	0.06	0.21
47P	Iron Bond Baghouse Stack	PM ₁₀	3.09	11.11
47Q	Iron No. 24 Unit Baghouse Stack	PM ₁₀	8.57	30.86
47R	Iron Grind Baghouse Stack	PM ₁₀	0.19	0.68
DCE	Iron Grind Baghouse Stack	PM ₁₀	0.06	0.21

(1) Emission point identification - either specific equipment

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designation or emission point number from plot plan.

(2) Specific point source name. For fugitive sources use area name or fugitive source name.

(3) PM - particulate matter, suspended in the atmosphere, including PM₁₀

PM₁₀ - particulate matter equal to or less than 10 microns in diameter.

Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.

VOC - volatile organic compounds as defined in General Rule 101.1

SO₂ - sulfur dioxide

NO_x - total oxides of nitrogen

CO - carbon monoxide

(4) Fugitive emissions are an estimate only.

* 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 _____