

Emission Sources - Maximum Allowable Emission Rates

Permit Number 121741

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)
F1	Scrap Handling Area (5)	PM	0.310	1.358
		PM ₁₀	0.143	0.625
		PM _{2.5}	0.068	0.299
F2	Scrap Preheater (5)	PM	0.065	0.286
		PM ₁₀	0.030	0.132
		PM _{2.5}	0.014	0.063
		CO	0.361	1.581
		NO _x	0.440	1.927
		SO ₂	0.003	0.013
		VOC	0.024	0.105
F3	Preheater Afterburner (5)	PM	<0.001	0.002
		PM ₁₀	<0.001	0.002
		PM _{2.5}	<0.001	<0.001
		CO	0.010	0.044
		NO _x	0.048	0.210
		SO ₂	0.295	1.292
		VOC	0.118	0.517
		HAP	<0.001	0.001
F4	Electric Induction Melting Furnaces (2 furnaces) (5) (7)	PM	0.070	0.306
		PM ₁₀	0.070	0.306
		PM _{2.5}	0.070	0.306
		P	<0.001	<0.001

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		S	<0.001	<0.001
		Cu	<0.001	0.001
		Ni	<0.001	<0.001
		Cr	<0.001	0.001
		Mo	<0.001	<0.001
		Sn	<0.001	<0.001
		Zn	<0.001	<0.001
F5	Horizontal Ladle Heaters (2 heaters) (5)	PM	0.041	0.180
		PM ₁₀	0.041	0.180
		PM _{2.5}	0.041	0.180
		CO	0.886	3.880
		NO _x	1.080	4.730
		SO ₂	0.006	0.026
		VOC	0.058	0.254
F6	Vertical Ladle Heater and Dryer (5)	PM	0.041	0.180
		PM ₁₀	0.041	0.180
		PM _{2.5}	0.041	0.180
		CO	0.886	3.880
		NO _x	1.080	4.730
		SO ₂	0.006	0.026
		VOC	0.058	0.254
F7	Tundish Preheaters/Dryer (2 heaters and 1 dryer) (5)	PM	0.025	0.108
		PM ₁₀	0.025	0.108
		PM _{2.5}	0.025	0.108
		CO	0.531	2.326
		NO _x	0.648	2.838
		SO ₂	0.004	0.017
		VOC	0.035	0.153
F8	Ladle Metallurgy	PM	0.109	0.477

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		PM ₁₀	0.109	0.477
		PM _{2.5}	0.070	0.307
		CO	0.039	0.170
		NO _x	0.037	0.162
		SO ₂	0.054	0.237
		VOC	0.005	0.022
		P	<0.001	<0.001
		S	<0.001	<0.001
		Cu	<0.001	0.002
		Ni	<0.001	0.001
		Cr	<0.001	0.001
		Mo	<0.001	<0.001
		Sn	<0.001	<0.001
F9	Ladle Heating, Transfer, and Continuous Casting (5)(6)(8)	PM	0.558	2.444
		PM ₁₀	0.558	2.444
		PM _{2.5}	0.190	0.830
		CO	0.030	0.131
		NO _x	0.144	0.631
		SO ₂	0.886	3.881
		VOC	0.350	1.533
		HAP	0.001	0.003
		P	<0.001	0.001
		S	<0.001	0.001
		Cu	0.002	0.010
		Ni	0.001	0.004
		Cr	0.001	0.004
		Mo	<0.001	0.001
		Sn	<0.001	0.001
F10	Torch Cutting (5)	PM	0.125	0.548

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		PM ₁₀	0.125	0.548
		PM _{2.5}	0.125	0.548
		CO	0.062	0.269
		NO _x	0.075	0.329
		SO ₂	<0.001	0.002
		VOC	0.004	0.018
F11	Hot Rolling Mill (5)	PM	0.148	0.648
		PM ₁₀	0.148	0.648
		PM _{2.5}	0.148	0.648
F12	Solid Slag Processing (5)	PM	0.093	0.407
		PM ₁₀	0.093	0.407
		PM _{2.5}	0.093	0.407
F13	Non-Contact Cooling Tower 1 (5)	PM	0.053	0.230
		PM ₁₀	0.038	0.167
		PM _{2.5}	0.001	0.004
F14	Non-Contact Cooling Tower 2 (5)	PM	0.038	0.168
		PM ₁₀	0.028	0.122
		PM _{2.5}	0.001	0.004
P1	Fabric Filter Stack (Scrap Preheater, Preheater Afterburner, Electric Induction Melting Furnace, Ladle Metallurgy Station, Ladle Heating, Transfer, and Continuous Casting) (7)	PM	0.122	0.528
		PM ₁₀	0.122	0.528
		PM _{2.5}	0.122	0.528
		CO	2.670	11.695
		NO _x	3.209	14.054
		SO ₂	2.225	9.746
		VOC	0.694	3.040
		HAP	0.001	0.004
		P	<0.001	0.001
		S	<0.001	<0.001
		Cu	<0.001	0.002

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	Ni	<0.001	0.001
	Cr	<0.001	0.001
	Mo	<0.001	<0.001
	Sn	<0.001	<0.001
	Zn	<0.001	<0.001

- (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
- SO₂ - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
- PM₁₀ - 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
- HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
- P - phosphorous
- S - sulfur
- Cu - copper
- Ni - nickel
- Cr - chromium
- Mo - molybdenum
- Sn - tin
- Zn - zinc
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Ladle heating products of combustion are included in EPNs F5, F6, and F7.
- (7) Emission rates for P, S, Cu, Ni, Cr, Mo, Sn, and Zn are included in the particulate matter emission rates.
- (8) Emission rates for P, S, Cu, Ni, Cr, Mo, and Sn are included in the particulate matter emission rates.
- (9) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit and will need separate authorization, unless the activity can meet the conditions of 30 TAC § 116.119.

Date: March 9, 2015