

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 84879

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)	<u>Emission Rates</u>	
			lb/hr	TPY*
D-E and D-W	EAF 1 Baghouse 1 Stack EAF1 and Charging	PM _{total}	1.07	1.61
		PM _{10 front half}	0.66	0.99
		NO _x	1.72	2.58
		CO	19.00	28.50
		SO ₂	0.96	1.44
		VOC	1.40	2.10
		Pb	<0.001	<0.001
		Cr	<0.001	<0.001
		Ni	<0.001	<0.001
		Mn	0.02	0.03
		Zn	0.24	0.36
E-1 thru E-5	EAF 2 Baghouse 2 Stack EAF 2, Pouring, Casting, and Cooling	PM _{total}	1.79	2.68
		PM _{10 front half}	1.10	1.65
		NO _x	1.72	2.58
		CO	19.00	28.50
		SO ₂	0.96	1.44
		VOC	1.40	2.10
		Pb	<0.001	<0.001
		Cr	<0.001	<0.001
		Ni	<0.001	<0.001
		Mn	0.03	0.05
		Zn	0.40	0.60
SCRIP-FUG	Scrap Metal Pile and (4) Scrap Handling	PM/PM ₁₀	0.11	0.05

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BLDG1-FUG	Mold Pouring, Casting, Cooling, Table Blasting, Ladle Pre-heat 1 and 2, EAF1 Fugitives, and EAF2 Fugitives (4) (5)	PM	0.30	0.42
		PM ₁₀	0.19	0.20
		NO _x	0.51	1.84
		CO	0.33	1.44
		SO ₂	0.24	0.24
		VOC	1.70	1.77
BLDG2-FUG	Heat Treat Furnaces 1, 2, and 3; Tumble Blasting; Small Loop Sand Shakeout; Floor Mold Sand Shakeout; and Light-Off Torches 1, 2, 3, and 4 (4) (6)	PM	0.31	0.56
		PM ₁₀	0.06	0.11
		NO _x	2.94	9.67
		CO	2.47	8.12
		SO ₂	<0.003	0.01
		VOC	0.16	0.53
BLDG3-FUG	Pattern Heater 1, Mold and Core Making, Redford Core Process, Degate Operations, Pattern Heater Trough, and Water Heaters 1 and 2 (4) (6)	PM	0.01	0.03
		PM ₁₀	0.002	0.004
		NO _x	0.27	1.18
		CO	0.23	0.99
		SO ₂	<0.001	0.001
		VOC	0.01	0.06
BLDG4-FUG	Pattern Heater 2 and 3, Hanger Blasting, Arc Welding, Oxy-Acetylene Welding, and Grinding (4) (6)	PM	1.81	3.76
		PM ₁₀	1.69	3.51
		NO _x	0.20	0.86
		CO	0.16	0.72
		SO ₂	<0.001	0.001
		VOC	0.01	0.05
ALL	ALL	HAPS	<0.06	<0.09

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.

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- (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 - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
 - PM₁₀ - particulate matter equal to or less than 10 microns in diameter
 - PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 - CO - carbon monoxide
 - Pb - lead
 - Cr - chromium
 - Ni - nickel
 - Mn - manganese
 - Zn - zinc
 - HAPS - 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
 - (4) Fugitive emissions are an estimate only
 - (5) Table Blasting and Ladle Pre-heat 1 and 2 conducted per authorization and criteria of permit by rule (PBR).
 - (6) Operations/Processes conducted per authorization and criteria of PBR except Small Loop Sand Shakeout and Floor Mold Sand Shakeout which are authorized by Permit Number 1814A.
- * Compliance with annual emission limits is based on a rolling 12-month period.

Dated May 17, 2010