

Emission Sources - Maximum Allowable Emission Rates

Permit Number 19933 and PSDTX1204

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)
BH-1A and 1B	Baghouse 1 Stacks A and B EAF1 and Ladle Lancing	Total PM (6)	8.07	35.36
		PM ₁₀ (6)	8.07	35.36
		VOC	22.24	-
		NO _x	35.06	-
		CO Pre Mod (7)	659.00	-
		CO Post Mod (8)	427.68	-
		SO ₂	31.36	-
		Cd	<0.01	0.02
		Cr	0.01	0.05
		Ni	<0.01	0.01
		Pb	0.14	0.62
		Mn	0.13	0.55
		Zn	1.65	7.23
BH-2A and B	Baghouse 2 Stacks A and B EAF2	Total PM (6)	14.15	61.96
		PM ₁₀ (6)	14.15	61.96
		VOC	22.24	-
		NO _x	34.93	-
		CO Pre Mod (7)	659.00	-
		CO Post Mod (8)	427.68	-
		SO ₂	31.36	-

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		Cd	0.01	0.03
		Cr	0.02	0.09
		Ni	0.003	0.02
		Pb	0.25	1.09
		Mn	0.22	0.97
		Zn	2.89	12.67
BH-1A and B; and BH-2A and B	Baghouse 1 and 2 Cap for Both EPNs	VOC	-	74.13
		NO _x	-	116.42
		CO Pre Mod (7)	-	2352.24
		CO Post Mod (8)	-	1425.60
		SO ₂	-	104.54
LADLANFUG	Ladle Lancing (5)	Total PM	0.0002	0.001
		PM ₁₀	0.0002	0.001
		VOC	<0.01	<0.01
		NO _x	0.03	0.14
		CO	<0.01	<0.01
		SO ₂	<0.01	<0.01
LDLHTRFUG	4 Ladle Heaters (5)	Total PM	0.23	0.65
		PM ₁₀	0.06	0.16
		VOC	0.17	0.47
		NO _x	3.04	8.59
		CO	2.55	7.21
		SO ₂	0.02	0.05
LIMESILO	Lime Silo Filter Stack	Total PM/ PM ₁₀	0.51	1.72
		PM ₁₀	0.51	1.72

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BALLFUG	Ball Mill Building Fugitives (5) 1 Hardening Furnace, 1 Tempering Furnace, and Ball Mill Reheat Furnace	Total PM	0.36	1.28
		PM ₁₀	0.09	0.32
		VOC	0.26	0.92
		NO _x	4.74	16.82
		CO	3.98	14.13
		SO ₂	0.03	0.10
EAFBLDGFUG	EAF Building Fugitives (5) EAF 1. EAF2, Caster, and Tundish Heater	Total PM	0.26	0.45
		PM ₁₀	0.23	0.38
		VOC	0.02	0.05
		NO _x	2.54	8.58
		CO	0.28	0.76
		SO ₂	0.01	0.03
		Cd	<0.01	<0.01
		Cr	<0.01	<0.01
		Ni	<0.01	<0.01
		Pb	<0.01	0.02
		Mn	<0.01	0.01
		Zn	0.06	0.18
CASTORCH	Caster Torches	Total PM	0.02	0.09
		PM ₁₀	0.01	0.02
		VOC	0.02	0.07
		NO _x	0.27	1.20
		CO	0.23	1.01
		SO ₂	<0.01	<0.01
MILLFUG	Mill Reheat Furnace Fugitives (5)	Total PM	<0.01	0.04

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		PM ₁₀	<0.01	0.01
		VOC	<0.01	0.03
		NO _x	0.36	1.35
		CO	0.11	0.40
		SO ₂	<0.01	<0.01
MRFSTK	Mill Billet Reheat Stack	Total PM	0.96	3.62
		PM ₁₀	0.24	0.91
	Billet Reheat Furnace	VOC	0.69	2.62
		NO _x	35.33	133.54
		CO	10.60	40.06
		SO ₂	0.08	0.29
SCRAPLOAD	Scrap Metal Loading and Handling Fugitives (5)	Total PM	0.84	2.82
		PM ₁₀	0.41	1.38
SLAG CAP	Total Slag Emissions CAP Slag South Disposal Area, Slag Landfill Disposal Area, and Slag North Disposal Area	PM	0.70	2.32
		PM ₁₀	0.35	1.16
		Pb	0.0007	0.0023
MELTSHOPCT	Melt Shop Cooling Tower	Total PM	0.63	2.76
		PM ₁₀	0.31	1.38
ROLLMILLCT	Rolling Mill Cooling Tower	PM	0.88	3.90
		PM ₁₀	0.44	1.92
BALLMILLCT	Ball Mill Cooling Tower	Total PM	0.12	0.53
		PM10	0.08	0.37
ALL	All Sources	Any HAP	-	<10.00
		All HAPS	-	<25.00

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- (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
- Cd - cadmium
- Cr - chromium
- Ni - nickel
- Pb - lead
- Mn - manganese
- Zn - zinc
- 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
- (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) Speciated metal/HAPS are included in the PM/PM₁₀ values.
- (7) Pre Mod refers to current EAF exhaust system configuration
- (8) Post Mod refers to the EAF exhaust system configuration following modifications to improve capture and reduce CO emissions.
- (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 conditions of 30 TAC 116.119.

Date: June 4, 2013