

## 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. 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*
BH-1A & B	Baghouse 1 Stacks A & B EAF 1 and Ladle Lancing	Total PM (5)	8.07	35.36
		PM <sub>10</sub>	8.07	35.36
		VOC	22.34	-
		NOx	35.06	-
		CO Pre Mod	659.00	-
		CO Post Mod	427.68	-
		SO <sub>2</sub>	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 & B	Baghouse 2 Stacks A & B EAF 2	Total PM (5)	14.15	61.96
		PM <sub>10</sub>	14.15	61.96
		VOC	22.34	-
		NOx	34.93	-
		CO Pre Mod	659.00	-
		CO Post Mod	427.68	-
		SO <sub>2</sub>	31.36	-
		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	12.68

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BH-1A & B and BH-2A & B	Baghouse 1 and 2 Emission Cap for Both EPNs	VOC	-	74.13
		NOx	-	116.42
		CO Per Mod	-	2352.24
		CO Post Mod	-	1425.60
		SO <sub>2</sub>	-	104.54
LADLANFUG	Ladle Lancing (4)	Total PM	0.0002	0.001
		PM <sub>10</sub>	0.0002	0.001
		VOC	<0.01	<0.01
		NOx	0.03	0.14
		CO	<0.01	<0.01
		SO <sub>2</sub>	<0.01	<0.001
LDLHTRFUG	4 Ladle Heaters (4)	Total PM	0.23	0.65
		PM <sub>10</sub>	0.06	0.16
		VOC	0.17	0.47
		NOx	3.04	8.59
		CO	2.55	7.21
		SO <sub>2</sub>	0.02	0.05
LIMESILO	Lime Silo Filter Stack	Total PM/PM <sub>10</sub>	0.51	1.72
BALLFUG	Ball Mill Building (4) Fugitives 2 Hardening Furnaces Ball Mill Reheat Furnace	Total PM	0.36	1.28
		PM <sub>10</sub>	0.09	0.32
		VOC	0.26	0.92
		NOx	4.74	16.82
		CO	3.98	14.13
		SO <sub>2</sub>	0.03	0.10
EAFBLDGFUG	EAF Building Fugitives (4) EAF 1, EAF 2, Caster, and Tundish Heater	Total PM (5)	0.26	0.45
		PM <sub>10</sub>	0.23	0.38
		VOC	0.02	0.05
		NOx	2.54	8.58
		CO	0.28	0.76
		SO <sub>2</sub>	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

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		PM <sub>10</sub>	0.01	0.02
		VOC	0.02	0.07
		NOx	0.27	1.20
		CO	0.23	1.01
		SO <sub>2</sub>	<0.01	<0.01
MILLFUG	Mill Reheat Furnace (4) Fugitives	Total PM	<0.01	0.04
		PM <sub>10</sub>	<0.01	0.01
		VOC	<0.01	0.03
		NOx	0.36	1.35
		CO	0.11	0.40
		SO <sub>2</sub>	<0.01	<0.01
MRFSTK	Mill Billet Reheat Stack Billet Reheat Furnace	Total PM	0.96	3.62
		PM <sub>10</sub>	0.24	0.91
		VOC	0.69	2.62
		NOx	35.33	133.54
		CO	10.60	40.06
		SO <sub>2</sub>	0.08	0.29
SCRAPLOAD	Scrap Metal Loading and Handling Fugitives	Total PM	0.84	2.82
		PM <sub>10</sub>	0.41	1.38
SLAG CAP	Total Slag Emissions- CAP Slag South Disposal Area, Slag Landfill Disposal Area, and Slag North Disposal Area	Total PM	0.70	2.32
		PM <sub>10</sub>	0.35	1.16
		Pb	0.0007	0.0023
MELTSHOPCT	Melt Shop Cooling Tower	Total PM	0.63	2.76
		PM <sub>10</sub>	0.31	1.38
ROLLMILLCT	Rolling Mill Cooling Tower	Total PM	0.88	3.90
		PM <sub>10</sub>	0.44	1.92
BALLMILLCT	Ball Mill Cooling Tower	Total PM	0.12	0.53
		PM <sub>10</sub>	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 a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
  - NO<sub>x</sub> - total oxides of nitrogen
  - SO<sub>2</sub> - sulfur dioxide
  - PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>
  - PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter
  - PM<sub>2.5</sub> - 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 (40 CFR) Part 63, Subpart C
- (4) Fugitive emissions are an estimate only.
- (5) Speciated metals/HAPs are included in the PM/PM<sub>10</sub> values.

\* Compliance with annual emission limits is based on a rolling 12-month period.

6-2-10 Version