

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 19933

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	Emission Rates		
Point No. (1)	Name (2)		Name (3)	lb/hr	
	TPY				
BH-1A and 1B	Electric Arc Furnace No. 1 Baghouse Stacks (5) (6)	PM	3.47	6.56	
		PM <sub>10</sub>	1.12	2.12	
		VOC	12.28	23.95	
		NO <sub>x</sub>	13.99	40.04	
		CO	67.16	138.35	
		SO <sub>x</sub>	8.19	15.56	
		Cr	0.005	0.01	
		Ni	0.001	0.003	
		Pb	0.06	0.11	
		Mn	0.07	0.13	
		Zn	0.45	0.86	
BH-2A and 2B	Electric Arc Furnace No. 2 Baghouse Stacks (5) (6)	PM	3.47	6.56	
		PM <sub>10</sub>	1.12	2.12	
		VOC	12.28	23.95	
		NO <sub>x</sub>	13.99	40.04	
		CO	67.16	138.35	
		SO <sub>x</sub>	8.19	15.56	
		Cr		0.005	0.01
		Ni	0.001	0.003	
		Pb	0.06	0.11	
		Mn	0.07	0.13	
		Zn	0.45	0.86	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
EAFBLDG FUG	Electric Arc Furnaces No. 1 and 2, Continuous Caster, Tundish Heaters, and EAF Auxiliary Burners (4) (5)	PM	2.23	4.36
		PM <sub>10</sub>	2.13	4.07
		VOC	0.85	1.74
		NO <sub>x</sub>	4.18	13.81
		CO	5.47	12.52
		SO <sub>x</sub>	0.52	0.99
		Cr	0.0033	0.0063
		Ni	0.0009	0.0017
		Pb	0.0347	0.0655
		Mn	0.0407	0.0770
		Zn	0.2751	0.5199
MRFSTK	Billet Reheat Furnace Stack	PM	0.96	3.62
		PM <sub>10</sub>	0.24	0.91
		VOC	0.69	2.62
		NO <sub>x</sub>	35.33	133.54
		CO	10.60	40.06
		SO <sub>x</sub>	0.08	0.29
MILLFUG	Mill Billet Reheat Furnace Fugitives (4)	PM	<0.01	0.02
		PM <sub>10</sub>	<0.01	<0.01
		VOC	0.01	0.03
		NO <sub>x</sub>	0.36	1.35
		CO	0.11	0.40
		SO <sub>x</sub>	<0.01	<0.01
LDLHTRFUG	Ladle Heaters (4)	PM	0.01	0.11
		PM <sub>10</sub>	<0.01	0.03
		VOC	0.01	0.08
		NO <sub>x</sub>	0.20	1.48
		CO	0.16	1.25
		SO <sub>x</sub>	<0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
BALLFUG	Ball Reheat Furnace Forge No. 2, Ball Mill Heat Treat Line (4)	PM	0.19	0.73
		PM <sub>10</sub>	0.05	0.18
		VOC	0.28	1.05
		NO <sub>x</sub>	5.06	19.14
		CO	4.25	16.08
		SO <sub>x</sub>	0.03	0.11
LADLANFUG	Ladle Lancing Station (4)	PM	<0.001	0.27
		PM <sub>10</sub>	<0.001	0.21
SLAGLNDFIL	Slag Processing (4)	PM	0.16	0.61
		PM <sub>10</sub>	0.08	0.31
SLAGNORTH	Slag Disposal North (4)	PM	0.08	0.32
		PM <sub>10</sub>	0.04	0.15
SLAGSOUTH	Slag Disposal South (4)	PM	0.08	0.32
		PM <sub>10</sub>	0.04	0.15
LIMESILO	Lime Silo Vent	PM/PM <sub>10</sub>	0.001	<0.001
SCRAPLOAD	Scrap Metal Loading and Handling (4)	PM	1.39	5.24
		PM <sub>10</sub>	0.66	2.48
CASTORCH	Machine Scarfing and Torching Machines (4)	PM	1.12	4.24
		PM <sub>10</sub>	<0.01	<0.01
		VOC	<0.01	<0.01
		NO <sub>x</sub>	<0.01	<0.02
		CO	<0.01	<0.02
		SO <sub>x</sub>	<0.01	<0.01

(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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#### EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- (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>x</sub> - sulfur oxides
- PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>.
- PM<sub>10</sub> - 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.
- CO - carbon monoxide
- Cr - chrome
- Ni - nickel
- Pb - lead
- Mn - manganese
- Zn - zinc
- (4) Fugitive emissions are an estimate only.
- (5) The trace metals Cr, Ni, Pb, Mn, and Zn are included in the PM/PM<sub>10</sub>.
- (6) Total emissions for both baghouse stacks.

Dated\_\_\_\_\_