

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 86860 and PSDTX1188

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
AABS	Alloy Aggregate Baghouse Stack Flux Uload/Lad Storage Bin	PM/PM <sub>10</sub>	5.35	23.42
LWS	Lime Warehouse Stack Lime Silo	PM/PM <sub>10</sub>	7.47	32.71
LSTBS	LF and Stock Tank (5) Baghouse Stack EAF Elevated Bunker LF Elevated Lime Bunker Ladle Furnace	PM/PM <sub>10</sub>	4.54	19.89
		Cd	<0.001	<0.004
		Cr	<0.006	0.02
		Pb	0.04	0.17
		Mn	0.03	0.15
		Hg	0.0001	<0.0004
		Si	<0.005	0.02
		Zn	0.28	1.23
EBS	EAF Baghouse Stack (5)	NO <sub>x</sub>	44.64	137.24
		CO	595.24	1829.82
		VOC	44.64	137.24
		SO <sub>2</sub>	89.29	274.47
		PM/PM <sub>10</sub> total	20.18	88.38
		PM/PM <sub>10</sub> front half	15.13	66.28
		Cd	<0.004	0.02
		Cr	0.02	0.11
		Pb	0.17	0.74
		Mn	0.15	0.67
		Hg	<0.0004	<0.002
		Si	0.02	0.08
		Zn	1.24	5.45

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

RHFS	Rotary Hearth Furnace Stack	NO <sub>x</sub>	44.63	67.91
		CO	36.75	55.93
		VOC	2.41	3.66
		SO <sub>2</sub>	0.26	0.40
		PM/PM <sub>10</sub>	3.33	5.06
MPFS	Mandrel Preheat Furnace Stack	NO <sub>x</sub>	1.33	5.83
		CO	1.12	4.90
		VOC	0.07	0.32
		SO <sub>2</sub>	<0.01	0.03
		PM/PM <sub>10</sub>	0.10	0.44
QFS	Quench Furnace Stack	NO <sub>x</sub>	6.85	11.89
		CO	5.75	9.99
		VOC	0.38	0.65
		SO <sub>2</sub>	0.04	0.07
		PM/PM <sub>10</sub>	0.52	0.90
TFS	Tempering Furnace Stack	NO <sub>x</sub>	5.71	9.51
		CO	4.79	7.99
		VOC	0.31	0.52
		SO <sub>2</sub>	0.03	0.06
		PM/PM <sub>10</sub>	0.43	0.72
VDBS	VD Boiler Stack	NO <sub>x</sub>	4.01	7.58
		CO	3.37	6.37
		VOC	0.22	0.42
		SO <sub>2</sub>	0.02	0.05
		PM/PM <sub>10</sub>	0.30	0.58
SMWV	Steel Making Workshop Vent (5 and 6) Ladle Pre-Heater Tundish Pre-Heater Ladle Relining	NO <sub>x</sub>	11.54	29.04
		CO	11.31	30.02
		VOC	1.24	4.01
		SO <sub>2</sub>	0.08	0.20
		PM	1.30	3.80
		PM <sub>10</sub>	1.29	3.77
		Cd	<0.00001	<0.0001
		Cr Total	<0.0022	<0.0087

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

		Cr VI	0.002	<0.008
		Pb	<0.0001	<0.0002
		Mn	<0.01	<0.005
		Hg	<0.00001	<0.00001
		Si	<0.00001	<0.00001
		Zn	0.0001	<0.0005
AAWV	Alloy Aggregate Warehouse Vent	PM/PM <sub>10</sub>	<0.01	<0.01
PCLWV	Premium Connecting Line	CO	1.27	5.22
	Workshop Vent (6)	VOC	0.90	3.86
		PM/PM <sub>10</sub>	0.89	3.81
HRPPWV	Hot Rolling and Pipe Processing Workshop Vent (5 and 6)	CO	1.44	6.21
		VOC	3.14	12.46
		PM/PM <sub>10</sub>	2.24	9.03
		Cr Total	<0.003	<0.012
		Cr VI	0.002	0.008
		Mn	<0.01	<0.006
HR LDS	Hot Rolling Line Sinter Plate Filter Stack Piercing Mill Borax Spraying PQF Pipe Mill Extracting Mill Pipe Cutting	PM/PM <sub>10</sub>	4.25	4.25
ODPSS1	Outdoor Drop Points (4) Scrap Steel by Truck	PM	0.03	0.10
	10	PM <sub>10</sub>	0.01	0.05
ODPSS2	Outdoor Drop Points (4) Scrap Steel by Train 4	PM	0.03	0.10
		PM <sub>10</sub>	0.01	0.05
ODPSR1	Outdoor Drop Point (4) Spent Refractory and Other Waste Storage Pile 1	PM	<0.01	0.03
		PM <sub>10</sub>	<0.01	0.02

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

ODPS1	Outdoor Drop Point (4) Slag 1	PM/PM <sub>10</sub> Pb	<0.01 <0.00001	<0.01 <0.00001
ODPSR2	Outdoor Drop Point (4) Spent Refractory and Other Waste Storage Pile 2	PM PM <sub>10</sub>	0.10 0.05	0.06 0.03
ODPS2	Outdoor Drop Point (4) Slag 2-2	PM/PM <sub>10</sub> Pb	<0.01 <0.00001	<0.01 <0.00001
ODPSR3	Outdoor Drop Point (4) Spent Refractory and Other Waste Storage Pile 3	PM PM <sub>10</sub>	<0.01 <0.01	0.04 0.02
ODPS3	Outdoor Drop (4) Point Slag 3	PM/PM <sub>10</sub> Pb	<0.01 <0.00001	<0.01 <0.00001
OSPSS	Outdoor Storage Piles (4) Scrap Steel	PM PM <sub>10</sub>	- -	1.55 0.77
OSPFST	Outdoor Storage Pile (4) First Sedimentation Tank	PM/PM <sub>10</sub>	-	<0.01
OSPS1	Outdoor Storage Piles (4) Slag 1	PM PM <sub>10</sub> Pb	- -	0.51 0.26 <0.001
OSPSR1	Outdoor Storage Pile (4) Spent Refractory and Other Waste 1	PM PM <sub>10</sub>	- -	2.01 1.00
OSPS2	Outdoor Storage Piles (4) Slag 2	PM PM <sub>10</sub> Pb	- -	0.51 0.26 <0.001
OSPSR2	Outdoor Storage Pile (4) Spent Refractory and	PM PM <sub>10</sub>	- -	2.01 1.00

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## Other Waste 2

N6CCT	Contact Cooling (4) Tower No. 6	PM/PM <sub>10</sub>	0.03	0.14
N7CCT	Contact Cooling (4) Tower No. 7	PM/PM <sub>10</sub>	0.02	0.07
RSCCT	Rolling Steel Contact (4) Cooling Tower	PM/PM <sub>10</sub>	0.03	0.14
PPCCT	Pipe Processing (4) Contact Cooling Tower	PM/PM <sub>10</sub>	0.03	0.14
SMWTF	Steel Making Water (4) Treatment Facility	VOC PM/PM <sub>10</sub>	0.10 0.10	0.10 0.10
RSWTF	Rolling Steel Water (4) Treatment Facility	VOC PM/PM <sub>10</sub>	0.10 0.10	0.10 0.10
GWTF	Graphite Water (4) Treatment Facility	VOC PM/PM <sub>10</sub>	0.10 0.10	0.10 0.10
CMSCS1	Caster Spray Chamber Stack 1	NO <sub>x</sub> CO VOC PM/PM <sub>10</sub> Pb	0.18 0.58 0.02 0.07 0.001	0.55 1.75 0.07 0.22 0.002
CMSCS2	Caster Spray Chamber Stack 2	NO <sub>x</sub> CO VOC PM/PM <sub>10</sub> Pb	0.18 0.58 0.02 0.07 0.001	0.55 1.75 0.07 0.22 0.002
CS1	Coating Stack 1	VOC PM/PM <sub>10</sub>	0.21 0.64	0.82 2.45
CS2	Coating Stack 2	VOC PM/PM <sub>10</sub>	0.21 0.64	0.82 2.45

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

CS3	Coating Stack 3	VOC	0.21	0.82
		PM/PM <sub>10</sub>	0.64	2.45
UVCS	UV Coating Stack	VOC	<0.01	0.01
		PM/PM <sub>10</sub>	0.01	0.04
VDSS	VD Steam Stack	NO <sub>x</sub>	0.73	2.19
		CO	29.10	87.43
		VOC	0.09	0.26
		SO <sub>2</sub>	0.02	0.04
		PM/PM <sub>10</sub>	0.29	0.87
ALL	ALL	HAPs	<0.45	<1.92

- (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  
 Cr VI - chromium valence + 6  
 Pb - lead  
 Mn - manganese  
 Hg - mercury  
 Si - silicon  
 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) Fugitive emissions are an estimate only.
- (5) Speciated metals/HAPs are included in the PM/PM<sub>10</sub> values.
- (6) The PM/PM<sub>10</sub> may include trace amounts of non-speciated metals including but not limited to Cr, Pb, and Mn.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Dated June 20, 2011