

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 ₁₀	5.35	23.42
LWS	Lime Warehouse Stack Lime Silo	PM/PM ₁₀	7.47	32.71
LSTBS	LF and Stock Tank (5) Baghouse Stack EAF Elevated Bunker LF Elevated Lime Bunker Ladle Furnace	PM/PM ₁₀	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 _x	44.64	137.24
		CO	595.24	1829.82
		VOC	44.64	137.24
		SO ₂	89.29	274.47
		PM/PM ₁₀ total	20.18	88.38
		PM/PM ₁₀ 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

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RHFS	Rotary Hearth Furnace Stack	NO _x	44.63	67.91
		CO	36.75	55.93
		VOC	2.41	3.66
		SO ₂	0.26	0.40
		PM/PM ₁₀	3.33	5.06
RFS	Reheating Furnace Stack	NO _x	13.97	28.81
		CO	11.50	23.73
		VOC	0.75	1.55
		SO ₂	0.08	0.17
		PM/PM ₁₀	1.04	2.15
MPFS	Mandrel Preheat Furnace Stack	NO _x	1.33	5.83
		CO	1.12	4.90
		VOC	0.07	0.32
		SO ₂	<0.01	0.03
		PM/PM ₁₀	0.10	0.44
QFS	Quench Furnace Stack	NO _x	6.85	11.89
		CO	5.75	9.99
		VOC	0.38	0.65
		SO ₂	0.04	0.07
		PM/PM ₁₀	0.52	0.90
TFS	Tempering Furnace Stack	NO _x	5.71	9.51
		CO	4.79	7.99
		VOC	0.31	0.52
		SO ₂	0.03	0.06
		PM/PM ₁₀	0.43	0.72
VDBS	VD Boiler Stack	NO _x	4.01	7.58
		CO	3.37	6.37
		VOC	0.22	0.42
		SO ₂	0.02	0.05
		PM/PM ₁₀	0.30	0.58
SMWV	Steel Making Workshop Vent (5 and 6) Ladle Pre-Heater	NO _x	11.54	29.04
		CO	11.31	30.02
		VOC	1.24	4.01

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	Tundish Pre-Heater	SO ₂	0.08	0.20
	Ladle Relining	PM	1.30	3.80
		PM ₁₀	1.29	3.77
		Cd	<0.00001	<0.0001
		Cr Total	<0.0022	<0.0087
		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 ₁₀	<0.01	<0.01
PCLWV	Premium Connecting Line	CO	1.27	5.22
	Workshop Vent (6)	VOC	0.90	3.86
		PM/PM ₁₀	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 ₁₀	2.24	9.03
		Cr Total	<0.003	<0.012
		Cr VI	0.002	0.008
		Mn	<0.01	<0.006
HRLDS	Hot Rolling Line Sinter Plate Filter Stack	PM/PM ₁₀	4.25	4.25
	Piercing Mill			
	Borax Spraying			
	PQF Pipe Mill			
	Extracting Mill			
	Pipe Cutting			
ODPSS1	Outdoor Drop Points (4)	PM	0.03	0.10
	Scrap Steel by Truck	PM ₁₀	0.01	0.05
ODPSS2	Outdoor Drop Points (4)	PM	0.03	0.10
	Scrap Steel by Train 4	PM ₁₀	0.01	0.05
ODPSR1	Outdoor Drop Point (4)	PM	<0.01	0.03

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

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	Slag 2	Pb		<0.001
OSPSR2	Outdoor Storage Pile (4) Spent Refractory and Other Waste 2	PM PM ₁₀	- -	2.01 1.00
N6CCT	Contact Cooling (4) Tower No. 6	PM/PM ₁₀	0.03	0.14
N7CCT	Contact Cooling (4) Tower No. 7	PM/PM ₁₀	0.02	0.07
RSCCT	Rolling Steel Contact (4) Cooling Tower	PM/PM ₁₀	0.03	0.14
PPCCT	Pipe Processing (4) Contact Cooling Tower	PM/PM ₁₀	0.03	0.14
SMWTF	Steel Making Water (4) Treatment Facility	VOC PM/PM ₁₀	0.10 0.10	0.10 0.10
RSWTF	Rolling Steel Water (4) Treatment Facility	VOC PM/PM ₁₀	0.10 0.10	0.10 0.10
GWTF	Graphite Water (4) Treatment Facility	VOC PM/PM ₁₀	0.10 0.10	0.10 0.10
CMSCS1	Caster Spray Chamber Stack 1	NO _x CO VOC PM/PM ₁₀ 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 _x CO VOC PM/PM ₁₀ 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 ₁₀	0.21 0.64	0.82 2.45

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CS2	Coating Stack 2	VOC	0.21	0.82
		PM/PM ₁₀	0.64	2.45
CS3	Coating Stack 3	VOC	0.21	0.82
		PM/PM ₁₀	0.64	2.45
UVCS	UV Coating Stack	VOC	<0.01	0.01
		PM/PM ₁₀	0.01	0.04
VDSS	VD Steam Stack	NO _x	0.73	2.19
		CO	29.10	87.43
		VOC	0.09	0.26
		SO ₂	0.02	0.04
		PM/PM ₁₀	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_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
 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/PM₁₀ values.

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- (6) The PM/PM₁₀ may include trace amounts of non-speciated metals including but not limited to Cr, Pb, and Mn.

Dated April 19, 2010