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, 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	
			lbs/hour	TPY (4)
LWS	Lime Warehouse Baghouse and Alloy Aggregate Baghouse Stack FINs Description: Lime Silo and Flux Unloading and Storage Bin	PM	5.98	26.17
		PM_{10}	5.98	26.17
LSTBS	LF and Stock Tank Baghouse Stack FINs Description: EAF Elevated Bunker, LF Elevated Lime Bunker, and Ladle Furnace (6)	PM	4.54	19.89
		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

Emission Sources - Maximum Allowable Emission Rates

EBS	EAF Baghouse Stack (6)	NO_x	44.64	137.24
		CO	595.24	1829.82
		VOC	44.64	137.24
		SO_2	89.29	274.47
		PM_{total}	20.18	88.38
		$PM_{10\ total}$	20.18	88.38
		$PM_{front\ half}$	15.13	66.28
		$PM_{10\ front\ half}$	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
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	3.33	5.06
		PM_{10}	3.33	5.06
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

Emission Sources - Maximum Allowable Emission Rates

		PM	0.10	0.44
		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	0.52	0.90
		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	0.43	0.72
		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	0.30	0.58
		PM_{10}	0.30	0.58

Emission Sources - Maximum Allowable Emission Rates

SMWV	Steel Making Workshop Vent Ladle Preheater, Tundish Preheater, and Ladle Relining (6) and (7)	NO_x	11.54	29.04
		CO	11.31	30.02
		VOC	1.24	4.01
		SO_2	0.08	0.20
		PM	0.14	0.41
		PM_{10}	0.14	0.39
		Cd	<0.00001	<0.0001
		Cr	<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	<0.01	<0.01
		PM_{10}	<0.01	<0.01
PCLWV	Premium Connecting Line Workshop Vent (7)	CO	1.27	5.22
		VOC	0.90	3.86
		PM	0.09	0.38
		PM_{10}	0.09	0.38
HRPPWV	Hot Rolling and Pipe Processing Workshop Vent (6) and (7)	CO	1.44	6.21
		VOC	3.14	12.46
		PM	0.22	0.90
		PM_{10}	0.22	0.90
		Cr	<0.003	<0.012

Emission Sources - Maximum Allowable Emission Rates

		Cr VI	0.002	0.008
		Mn	<0.01	<0.006
HRLDS	Hot Rolling Line Sinter Plate Filter Stack, Piercing Mill, Borax Spraying, PQF Pipe Mill, Extracting Mill, and PipeCutting FINs: HRL, BSCS, PM, EM, and SM	PM	4.25	4.25
		PM_{10}	4.25	4.25
ODPSS1	Outdoor Drop Points, Scrap Steel by Truck 10 (5)	PM	0.03	0.10
		PM_{10}	0.01	0.05
ODPSS2	Outdoor Drop Points Scrap Steel By Train 4 (5)	PM	0.03	0.10
		PM_{10}	0.01	0.05
ODPSR1	Outdoor Drop Point Spent Refractory and Other Waste Storage Pile-1 (5)	PM	<0.01	0.02
		PM_{10}	<0.01	<0.01
ODPS1	Outdoor Drop Point Slag-1 (5)	PM	<0.01	0.01
		PM_{10}	<0.01	<0.01
ODPSR2	Outdoor Drop Point Spent Refractory and Other Waste Storage Pile-2 (5)	PM	0.05	0.03
		PM_{10}	0.02	0.02
ODPS2	Outdoor Drop Point Slag-2*2 (5)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
ODPSR3	Outdoor Drop Point Spent Refractory and Other Waste Storage Pile-3 (5)	PM	<0.01	0.02
		PM_{10}	<0.01	<0.01
ODPS3	Outdoor Drop Point Slag-3 (5)	PM	<0.01	<0.01
		PM_{10}	<0.01	<0.01
OSPSS	Outdoor Storage Piles, Scrap Steel (5)	PM	0.23	1.00
		PM_{10}	0.11	0.50
OSPFST	Outdoor Storage Pile, First Sedimentation Tank (5)	PM	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	<0.01	<0.01
OSPS1	Outdoor Storage Pile, Slag-1 (5)	PM	0.06	0.26
		PM_{10}	0.03	0.13
OSPSR1	Outdoor Storage Pile Spent Refractory and Other Waste-1 (5)	PM	0.23	1.00
		PM_{10}	0.11	0.50
OSPS2	Outdoor Storage Pile, Slag-2 (5)	PM	0.06	0.26
		PM_{10}	0.03	0.13
OSPSR2	Outdoor Storage Pile, Spent Refractory and Other Waste-2 (5)	PM	0.23	1.00
		PM_{10}	0.11	0.50
N6CCT	Contact Cooling Tower No. 6 (5)	PM	0.03	0.14
		PM_{10}	0.03	0.14
N7CCT	Contact Cooling Tower No. 7 (5)	PM	0.02	0.07
		PM_{10}	0.02	0.07
RSCCT	Rolling Steel Contact Cooling Tower (5)	PM	0.03	0.14
		PM_{10}	0.03	0.14
PPCCT	Pipe Processing Contact Cooling Tower (5)	PM	0.03	0.14
		PM_{10}	0.03	0.14

Emission Sources - Maximum Allowable Emission Rates

SMWTF	Steel Making Water Treatment Facility (5)	VOC	0.10	0.10
		PM	0.10	0.10
		PM_{10}	0.10	0.10
RSWTF	Rolling Steel Water Treatment Facility (5)	VOC	0.10	0.10
		PM	0.10	0.10
		PM_{10}	0.10	0.10
GWTF	Graphite Water Treatment Facility (5)	VOC	0.10	0.10
		PM	0.10	0.10
		PM_{10}	0.10	0.10
CMSCS1	Caster Spray Chamber Stack 1	NOx	0.18	0.55
		CO	0.58	1.75
		VOC	0.02	0.07
		PM	0.07	0.22
		PM_{10}	0.07	0.22
		Pb	0.001	0.002
CMSCS2	Caster Spray Chamber Stack 2	NOx	0.18	0.55
		CO	0.58	1.75
		VOC	0.02	0.07
		PM	0.07	0.22
		PM_{10}	0.07	0.22
		Pb	0.001	0.002
UVCS1	UV Coating Stack 1	VOC	<0.01	0.01
		PM	0.01	0.04

Emission Sources - Maximum Allowable Emission Rates

UVCS2	UV Coating Stack 2	PM_{10}	0.01	0.04
		VOC	<0.01	0.01
		PM	0.01	0.04
UVCS3	UV Coating Stack 3	PM_{10}	0.01	0.04
		VOC	<0.01	0.01
		PM	0.01	0.04
UVCS4	UV Coating Stack 4	PM_{10}	0.01	0.04
		VOC	<0.01	0.01
		PM	0.01	0.04
VDSS	VD Steam Stack	PM_{10}	0.01	0.04
		NO_x	0.73	2.19
		CO	29.10	87.43
		VOC	0.09	0.26
		SO_2	0.02	0.04
		PM	0.29	0.87
ALL	ALL	PM10	0.29	0.87
		HAPS	<0.45	<1.92

(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
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - 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
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) 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 metals/HAPS are included in the PM and PM_{10} values.
(7) The PM/PM_{10} may include trace amounts of non-speciated metals including, but not limited to Cr, Pb, and Mn.

Date: July 31, 2012