Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 156458 and PSDTX1562

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 (6)	
			lbs/hour	TPY (4)
BHST-1	Reverse Air Fabric Filter Baghouse 1 Stack (EAF1/LMS1)	PM	57.45	251.65
		PM_{10}	57.45	251.65
		$PM_{2.5}$	57.45	251.65
		NO_x	68.90	301.78
		CO	399.80	1,751.12
		SO_2	47.20	206.74
		VOC	18.37	80.48
		Pb	0.11	0.49
		Be	5.54E-05	2.43E-04
		Cd	9.90E-04	4.34E-03
		Cr	6.93E-04	3.04E-03
		Hg	2.18E-02	0.10
		Mn	0.06	0.26
		Ni	1.09E-03	4.77E-03
		F	1.98	8.67
BHST-2	Reverse Air Fabric Filter Baghouse 2 Stack (EAF2/LMS2)	PM	57.45	251.65
		PM_{10}	57.45	251.65
		$PM_{2.5}$	57.45	251.65
		NO_x	68.90	301.78
		CO	399.80	1,751.12
		SO_2	47.20	206.74
		VOC	18.37	80.48
		Pb	0.11	0.49
		Be	5.54E-05	2.43E-04

Emission Sources - Maximum Allowable Emission Rates

		Cd	9.90E-04	4.34E-03
		Cr	6.93E-04	3.04E-03
		Hg	2.18E-02	0.10
		Mn	0.06	0.26
		Ni	1.09E-03	4.77E-03
		F	1.98	8.67
MSFUG	Melt Shop Fugitives (EAFs, LMSs, Ladle Dryer, Horizontal Ladle Preheaters 1-5, Vertical Ladle Preheaters 6-7, Tundish Dryer, and Tundish Preheaters 1-4) (5)	PM	0.26	1.13
		PM_{10}	0.21	0.94
		$PM_{2.5}$	0.21	0.94
		NO_x	18.40	80.59
		CO	21.74	95.23
		SO_2	1.70	7.43
		VOC	1.33	5.81
		Pb	2.24E-03	9.81E-03
		Be	1.12E-06	4.91E-06
		Cd	2.00E-05	8.76E-05
		Cr	1.40E-05	6.13E-05
		Hg	4.40E-04	1.93E-03
		Mn	1.20E-03	5.26E-03
		Ni	2.20E-05	9.64E-05
		F	0.04	0.18
CASTFUG	Casting Fugitives (5)	PM	0.24	1.05
		PM_{10}	0.24	1.05
		$PM_{2.5}$	0.24	1.05
LCFVF1	Lime, Carbon, and Flux Silo 1 Vent	PM	0.09	0.38
		PM_{10}	0.09	0.38
		$PM_{2.5}$	0.09	0.38
LCFVF2	Lime, Carbon, and Flux Silo 2 Vent	PM	0.09	0.38
		PM_{10}	0.09	0.38

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.09	0.38
LCFVF3	Lime, Carbon, and Flux Silo 3 Vent	PM	0.09	0.38
		PM_{10}	0.09	0.38
		$PM_{2.5}$	0.09	0.38
LCFVF4	Lime, Carbon, and Flux Silo 4 Vent	PM	0.09	0.38
		PM_{10}	0.09	0.38
		$PM_{2.5}$	0.09	0.38
LCFVF5	Lime, Carbon, and Flux Silo 5 Vent	PM	0.09	0.38
		PM_{10}	0.09	0.38
		$PM_{2.5}$	0.09	0.38
LCFVF6	Lime, Carbon, and Flux Silo 6 Vent	PM	0.09	0.38
		PM_{10}	0.09	0.38
		$PM_{2.5}$	0.09	0.38
ALYVF1	Alloy Silo 1 Vent	PM	0.09	0.38
		PM_{10}	0.09	0.38
		$PM_{2.5}$	0.09	0.38
ALYVF2	Alloy Silo 2 Vent	PM	0.09	0.38
		PM_{10}	0.09	0.38
		$PM_{2.5}$	0.09	0.38
EAFVF1	EAF Baghouse 1 Dust Silo Vent	PM	0.09	0.38
		PM_{10}	0.09	0.38
		$PM_{2.5}$	0.09	0.38
EAFVF2	EAF Baghouse 2 Dust Silo Vent	PM	0.09	0.38
		PM_{10}	0.09	0.38
		$PM_{2.5}$	0.09	0.38
VTD1	Vacuum Tank Degasser Flare 1 Stack	PM	0.07	-
		PM_{10}	0.07	-
		$PM_{2.5}$	0.07	-
		NO_x	0.98	-

Emission Sources - Maximum Allowable Emission Rates

		CO	5.38	-
		SO_2	<0.01	-
		VOC	2.02	-
VTD2	Vacuum Tank Degasser Flare 2 Stack	PM	0.07	-
		PM_{10}	0.07	-
		$PM_{2.5}$	0.07	-
		NO_x	0.98	-
		CO	5.38	-
		SO_2	<0.01	-
		VOC	2.02	-
VTD1/VTD2	Total Vacuum Tank Degasser Flares	PM	-	0.16
		PM_{10}	-	0.16
		$PM_{2.5}$	-	0.16
		NO_x	-	2.15
		CO	-	14.93
		SO_2	-	0.02
		VOC	-	4.44
TFST-1	Hot Mill Tunnel Furnace 1 Stack	PM	0.08	0.34
		PM_{10}	0.08	0.34
		$PM_{2.5}$	0.08	0.34
		NO_x	15.00	65.70
		CO	12.35	54.11
		SO_2	0.09	0.39
		VOC	0.81	3.54
TFST-2	Hot Mill Tunnel Furnace 2 Stack	PM	0.08	0.34
		PM_{10}	0.08	0.34
		$PM_{2.5}$	0.08	0.34
		NO_x	15.00	65.70
		CO	12.35	54.11

Emission Sources - Maximum Allowable Emission Rates

		SO_2	0.09	0.39
		VOC	0.81	3.54
TCMST	Tandem Cold Mill Mist Eliminator Stack	PM	11.44	50.09
		PM_{10}	11.44	50.09
		$PM_{2.5}$	11.44	50.09
PLST-1	Pickling Line Scale Breaker Baghouse Stack	PM	3.95	17.30
		PM_{10}	3.95	17.30
		$PM_{2.5}$	3.95	17.30
PLST-2	Pickling Line Mist Eliminator (Scrubber) Stack	PM	0.62	2.70
		PM_{10}	0.62	2.70
		$PM_{2.5}$	0.62	2.70
		HCl	0.37	1.60
SPMST	Skin Pass Mill Baghouse Stack	PM	2.11	9.23
		PM_{10}	2.11	9.23
		$PM_{2.5}$	2.11	9.23
CMBLR1	Pickling Line Boiler 1 Stack	PM	0.01	0.05
		PM_{10}	0.01	0.05
		$PM_{2.5}$	0.01	0.05
		NO_x	1.00	4.38
		CO	1.68	7.36
		SO_2	0.01	0.05
		VOC	0.11	0.48
CMBLR2	Pickling Line Boiler 2 Stack	PM	0.01	0.05
		PM_{10}	0.01	0.05
		$PM_{2.5}$	0.01	0.05
		NO_x	1.00	4.38
		CO	1.68	7.36
		SO_2	0.01	0.05
		VOC	0.11	0.48

Emission Sources - Maximum Allowable Emission Rates

CMBLR3	Pickling Line Boiler 3 Stack	PM	0.01	0.05
		PM_{10}	0.01	0.05
		$PM_{2.5}$	0.01	0.05
		NO_x	1.00	4.38
		CO	1.68	7.36
		SO_2	0.01	0.05
		VOC	0.11	0.48
CGLST-1	CGL-1 Cleaning Section Mist Eliminator Stack	PM	0.16	0.69
		PM_{10}	0.16	0.69
		$PM_{2.5}$	0.16	0.69
WA1	CGL2 - Cleaning Section Stack	PM	0.13	0.58
		PM_{10}	0.13	0.58
		$PM_{2.5}$	0.13	0.58
GALVFUG	Galvanizing Fugitives (Annealing Furnaces, Radiant Tube Heaters, and Launder Heater) (5)	PM	0.04	0.17
		PM_{10}	0.04	0.17
		$PM_{2.5}$	0.04	0.17
		NO_x	7.63	33.42
		CO	6.28	27.52
		SO_2	0.05	0.20
		VOC	0.41	1.80
CGLST-2	Galvanizing Line Heater Stack (Hot Band and Cold Roll)	PM	0.05	0.22
		PM_{10}	0.05	0.22
		$PM_{2.5}$	0.05	0.22
		NO_x	8.00	35.04
		CO	8.24	36.07
		SO_2	0.06	0.26
		VOC	0.54	2.36
WA2	CGL2 - Furnace Section (Annealing) Stack	PM	0.02	0.09
		PM_{10}	0.02	0.09

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.02	0.09
		NO_x	3.02	13.25
		CO	0.63	2.76
		SO_2	0.02	0.11
		VOC	0.23	0.99
RTO	Recuperative Thermal Oxidizer Stack (Recuperative Thermal Oxidizer, Primer Curing Oven, Finish Curing Oven, and Paint Line)	PM	0.78	3.39
		PM_{10}	0.05	0.23
		$PM_{2.5}$	0.05	0.23
		NO_x	10.20	44.66
		CO	8.56	37.51
		SO_2	0.06	0.27
		VOC	45.66	200.01
RTO2	Recuperative Thermal Oxidizer 2 Stack – Combustion Emissions	PM	0.03	0.13
		PM_{10}	0.03	0.13
		$PM_{2.5}$	0.03	0.13
		NO_x	2.94	12.88
		CO	4.94	21.64
		SO_2	0.04	0.15
		VOC	0.65	2.83
	Recuperative Thermal Oxidizer 2 Stack – Primer Oven and Paint Line 2	PM	0.01	0.04
		PM_{10}	0.01	0.04
		$PM_{2.5}$	0.01	0.04
		NO_x	0.98	4.29
		CO	1.65	7.21
		SO_2	0.01	0.05
		VOC	44.76	196.04
CT1	Meltshop Non-Contact Cooling Tower	PM	0.08	0.33
		PM_{10}	0.08	0.33
		$PM_{2.5}$	0.08	0.33

Emission Sources - Maximum Allowable Emission Rates

CT2	EAF HQ NCCW Cooling Tower	PM	0.02	0.09
		PM_{10}	0.02	0.09
		$PM_{2.5}$	0.02	0.09
CT3	815 EAF 2 NCCW Cooling Tower	PM	0.60	2.63
		PM_{10}	0.60	2.63
		$PM_{2.5}$	0.60	2.63
CT4	Cast Non-Contact Cooling Tower	PM	0.18	0.79
		PM_{10}	0.18	0.79
		$PM_{2.5}$	0.18	0.79
CT5	Caster Spray Cooling Tower	PM	0.03	0.13
		PM_{10}	0.03	0.13
		$PM_{2.5}$	0.03	0.13
CT6	Rolling Mill Non-Contact Cooling Tower	PM	0.23	0.99
		PM_{10}	0.23	0.99
		$PM_{2.5}$	0.23	0.99
CT7	RM Non-Contact Cooling Tower	PM	0.18	0.79
		PM_{10}	0.18	0.79
		$PM_{2.5}$	0.18	0.79
CT8	Laminar Cooling Tower	PM	0.13	0.56
		PM_{10}	0.13	0.56
		$PM_{2.5}$	0.13	0.56
CT9	Cold Mill Galvanizing Cooling Tower	PM	0.06	0.28
		PM_{10}	0.06	0.28
		$PM_{2.5}$	0.06	0.28
EMGEN1	Emergency Generator 1	PM	0.13	<0.01
		PM_{10}	0.13	<0.01
		$PM_{2.5}$	0.13	<0.01
		NO_x	18.43	0.92
		CO	11.51	0.58

Emission Sources - Maximum Allowable Emission Rates

		SO_2	0.02	<0.01
		VOC	2.61	0.13
EMGEN2	Emergency Generator 2	PM	0.13	<0.01
		PM_{10}	0.13	<0.01
		$PM_{2.5}$	0.13	<0.01
		NO_x	18.43	0.92
		CO	11.51	0.58
		SO_2	0.02	<0.01
		VOC	2.61	0.13
EMGEN3	Emergency Generator 3	PM	0.13	<0.01
		PM_{10}	0.13	<0.01
		$PM_{2.5}$	0.13	<0.01
		NO_x	18.43	0.92
		CO	11.51	0.58
		SO_2	0.02	<0.01
		VOC	2.61	0.13
EMGEN4	Emergency Generator 4	PM	0.13	<0.01
		PM_{10}	0.13	<0.01
		$PM_{2.5}$	0.13	<0.01
		NO_x	18.43	0.92
		CO	11.51	0.58
		SO_2	0.02	<0.01
		VOC	2.61	0.13
EMGEN5	Emergency Generator 5	PM	0.13	<0.01
		PM_{10}	0.13	<0.01
		$PM_{2.5}$	0.13	<0.01
		NO_x	18.43	0.92
		CO	11.51	0.58
		SO_2	0.02	<0.01

Emission Sources - Maximum Allowable Emission Rates

		VOC	2.61	0.13
BULK1	Grizzly Feeder - Drop Point (5)	PM	1.38	6.03
		PM_{10}	0.65	2.85
		$PM_{2.5}$	0.10	0.43
BULK2	36" Conveyor - Drop Point (5)	PM	1.61	7.04
		PM_{10}	0.76	3.33
		$PM_{2.5}$	0.12	0.50
BULK3	30" Conveyor - Drop Point (5)	PM	1.61	7.04
		PM_{10}	0.76	3.33
		$PM_{2.5}$	0.12	0.50
BULK4	5' by 12' Screen 1 (5)	PM	2.63	11.50
		PM_{10}	0.91	4.00
		$PM_{2.5}$	0.14	0.61
BULK5	5' by 12' Screen 2 (5)	PM	2.63	11.50
		PM_{10}	0.91	4.00
		$PM_{2.5}$	0.14	0.61
BULK6	24" Conveyor - Drop Point (5)	PM	0.46	2.01
		PM_{10}	0.22	0.95
		$PM_{2.5}$	0.03	0.14
BULK7	30" Conveyor - Drop Point (5)	PM	1.15	5.03
		PM_{10}	0.54	2.38
		$PM_{2.5}$	0.08	0.36
BULK8	6' by 16' Screen 1 (5)	PM	2.25	9.86
		PM_{10}	0.78	3.43
		$PM_{2.5}$	0.12	0.52
BULK9	6' by 16' Screen 2 (5)	PM	2.25	9.86
		PM_{10}	0.78	3.43
		$PM_{2.5}$	0.12	0.52
BULK10	6' by 16' Screen 3 (5)	PM	2.25	9.86

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.78	3.43
		$PM_{2.5}$	0.12	0.52
BULK11	48" Conveyor - Drop Point (5)	PM	0.34	1.51
		PM_{10}	0.16	0.71
		$PM_{2.5}$	0.02	0.11
BULK12	24" Stacker - Drop Point (5)	PM	0.34	1.51
		PM_{10}	0.16	0.71
		$PM_{2.5}$	0.02	0.11
BULK13	24" Stacker - Drop Point (5)	PM	0.57	2.51
		PM_{10}	0.27	1.19
		$PM_{2.5}$	0.04	0.18
BULK14	24" Conveyor - Drop Point (5)	PM	0.18	0.80
		PM_{10}	0.09	0.38
		$PM_{2.5}$	0.01	0.06
BULK15	24" Stacker - Drop Point (5)	PM	0.23	1.01
		PM_{10}	0.11	0.48
		$PM_{2.5}$	0.02	0.07
BULK16	4 1/4" Crusher (5)	PM	0.08	0.35
		PM_{10}	0.04	0.16
		$PM_{2.5}$	0.01	0.02
BULK17	30" Conveyor - Drop Point (5)	PM	0.11	0.50
		PM_{10}	0.05	0.24
		$PM_{2.5}$	0.01	0.04
SLGSKP1	Slag Stockpile 1 (5)	PM	0.79	3.44
		PM_{10}	0.37	1.63
		$PM_{2.5}$	0.06	0.25
SLGSKP2	Slag Stockpile 2 (5)	PM	0.14	0.63
		PM_{10}	0.07	0.30
		$PM_{2.5}$	0.01	0.05

Emission Sources - Maximum Allowable Emission Rates

SLGSKP3	Slag Stockpile 3 (5)	PM	<0.01	0.01
		PM_{10}	<0.01	<0.01
		$PM_{2.5}$	<0.01	<0.01
SCRPSKP1	Scrap Metal Stockpile 1 (5)	PM	1.51	6.63
		PM_{10}	0.72	3.13
		$PM_{2.5}$	0.11	0.47
SCRPSKP2	Scrap Metal Stockpile 2 (5)	PM	1.51	6.63
		PM_{10}	0.72	3.13
		$PM_{2.5}$	0.11	0.47
SCRPSKP3	Scrap Metal Stockpile 3 (5)	PM	1.51	6.63
		PM_{10}	0.72	3.13
		$PM_{2.5}$	0.11	0.47
SCRPSKP4	Scrap Metal Stockpile 4 (5)	PM	1.51	6.63
		PM_{10}	0.72	3.13
		$PM_{2.5}$	0.11	0.47
T1	Diesel Tank	VOC	0.07	<0.01
T2	Diesel Tank	VOC	0.07	<0.01
T3	Diesel Tank	VOC	0.07	<0.01
T4	Diesel Tank	VOC	0.07	<0.01
T5	Diesel Tank	VOC	0.07	<0.01
T6	Diesel Tank	VOC	0.07	<0.01
T7	Gasoline Tank	VOC	21.39	0.97
T8	Caster Hydraulic Tank	VOC	0.01	<0.01
T9	Hot Mill Hydraulic Tank	VOC	0.01	<0.01
T10	HCl Tank	HCl	4.29	0.18
T11	HCl Tank	HCl	4.29	0.18
T12	Used Oil Tank	VOC	0.01	<0.01
T13	Cold Degreaser	VOC	0.07	0.29

Emission Sources - Maximum Allowable Emission Rates

T14	Cold Degreaser	VOC	0.07	0.29
T15	Cold Degreaser	VOC	0.07	0.29
T16	Cold Degreaser	VOC	0.07	0.29
T17	Cold Degreaser	VOC	0.07	0.29
	Site-wide	Individual HAPs	-	<10
		Total HAPs	-	<25

(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
Pb - lead
Be - beryllium
Cd - cadmium
Cr - chromium
Hg - mercury
Mn - manganese
Ni - nickel
F - fluoride
HCl - hydrochloric acid
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) Planned startup and shutdown emissions are included. Maintenance activities, except as specified in Special Condition Nos. 43 and 44, are not authorized by this permit and will need separate authorization, unless the activity can meet the conditions of 30 TAC § 116.119.

Date: February 1, 2022