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	48.85	213.94
		PM_{10}	48.85	213.94
		$PM_{2.5}$	48.85	213.94
		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	48.85	213.94
		PM_{10}	48.85	213.94
		$PM_{2.5}$	48.85	213.94
		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, Tundish Preheaters 1-2, Dolomite Lime inside Silo, Hi-Cal Lime Inside and Carbon Inside Silo #1 and #2) (5)	PM	0.35	1.54
		PM_{10}	0.26	1.13
		$PM_{2.5}$	0.26	1.13
		NO_x	16.60	72.71
		CO	20.26	88.73
		SO_2	1.68	7.38
		VOC	1.23	5.38
		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	0.07	0.30
		PM_{10}	0.07	0.30
		$PM_{2.5}$	0.07	0.30
LCFVF2	Lime, Carbon, and Flux Silo 2 Vent	PM	0.07	0.30
		PM_{10}	0.07	0.30

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.07	0.30
LCFVF3	Lime, Carbon, and Flux Silo 3 Vent	PM	0.07	0.30
		PM_{10}	0.07	0.30
		$PM_{2.5}$	0.07	0.30
LCFVF4	Lime, Carbon, and Flux Silo 4 Vent	PM	0.07	0.30
		PM_{10}	0.07	0.30
		$PM_{2.5}$	0.07	0.30
LCFVF5	Lime, Carbon, and Flux Silo 5 Vent	PM	0.04	0.19
		PM_{10}	0.04	0.19
		$PM_{2.5}$	0.04	0.19
LCFVF6	Lime, Carbon, and Flux Silo 6 Vent	PM	0.04	0.19
		PM_{10}	0.04	0.19
		$PM_{2.5}$	0.04	0.19
EAFVF1	EAF Baghouse 1 Dust Silo Vent	PM	0.07	0.30
		PM_{10}	0.07	0.30
		$PM_{2.5}$	0.07	0.30
VTD1	Vacuum Tank Degasser Flare 1 Stack	PM	0.07	0.16
		PM_{10}	0.07	0.16
		$PM_{2.5}$	0.07	0.16
		NO_x	0.98	2.15
		CO	5.38	14.93
		SO_2	<0.01	0.02
		VOC	2.02	4.44
VTD2	Vacuum Tank Degasser Flare 2 Stack	PM	0.07	0.16
		PM_{10}	0.07	0.16
		$PM_{2.5}$	0.07	0.16
		NO_x	0.98	2.15
		CO	5.38	14.93
		SO_2	<0.01	0.02

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		VOC	2.02	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
		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	0.68	2.97
		PM_{10}	0.68	2.97
		$PM_{2.5}$	0.68	2.97
		HCl	0.37	1.60
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

Emission Sources - Maximum Allowable Emission Rates

		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
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
GALVFUG	Galvanizing Fugitives (Annealing Furnaces, Launder Heater and Skin Pass Mill Mist Eliminator) (5)	PM	0.31	1.37
		PM_{10}	0.31	1.37
		$PM_{2.5}$	0.31	1.37
		NO_x	6.43	28.16
		CO	5.30	23.19
		SO_2	0.04	0.17
		VOC	0.35	1.52
CGLST-2	Galvanizing Line Heater Stack (Radiant Tube, Cold Roll and Auxiliary	PM	0.05	0.21
		PM_{10}	0.05	0.21

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.05	0.21
		NO_x	8.06	35.30
		CO	7.89	34.52
		SO_2	0.05	0.25
		VOC	0.51	3.16
RTO	Recuperative Thermal Oxidizer Stack (Recuperative Thermal Oxidizer, Primer Curing Oven, and Paint Line)	PM	0.05	0.18
		PM_{10}	0.04	0.19
		$PM_{2.5}$	0.04	0.19
		NO_x	8.24	36.07
		CO	6.91	30.30
		SO_2	0.05	0.22
		VOC	45.33	199.07
CT1	Meltshop Non-Contact Cooling Tower	PM	1.16	5.07
		PM_{10}	0.28	1.21
		$PM_{2.5}$	<0.01	<0.01
CT3	815 EAF 2 NCCW Cooling Tower	PM	1.16	5.07
		PM_{10}	0.28	1.21
		$PM_{2.5}$	<0.01	<0.01
CT4	Cast Non-Contact Cooling Tower	PM	0.21	0.92
		PM_{10}	0.05	0.22
		$PM_{2.5}$	<0.01	<0.01
CT5	Caster Spray Cooling Tower	PM	0.18	0.79
		PM_{10}	0.04	0.19
		$PM_{2.5}$	<0.01	<0.01
CT6	Rolling Mill Non-Contact Cooling Tower	PM	0.90	3.95
		PM_{10}	0.21	0.94
		$PM_{2.5}$	<0.01	<0.01
CT7	RM Non-Contact Cooling Tower	PM	0.21	0.92
		PM_{10}	0.05	0.22

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	<0.01	<0.01
CT8	Laminar Cooling Tower	PM	0.84	3.69
		PM_{10}	0.20	0.88
		$PM_{2.5}$	<0.01	<0.01
CT9	Cold Mill Galvanizing Cooling Tower	PM	0.39	1.71
		PM_{10}	0.09	0.41
		$PM_{2.5}$	<0.01	<0.01
EMGEN1	Emergency Generator 1	PM	0.18	<0.01
		PM_{10}	0.18	<0.01
		$PM_{2.5}$	0.18	<0.01
		NO_x	24.72	1.24
		CO	15.43	0.77
		SO_2	0.03	<0.01
		VOC	3.50	0.18
EMGEN2	Emergency Generator 2	PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_x	30.90	1.55
		CO	19.29	0.96
		SO_2	0.04	<0.01
		VOC	4.37	0.22
EMGEN3	Emergency Generator 3	PM	0.18	<0.01
		PM_{10}	0.18	<0.01
		$PM_{2.5}$	0.18	<0.01
		NO_x	24.72	1.24
		CO	15.43	0.77
		SO_2	0.03	<0.01
		VOC	3.50	0.18
EMGEN4	Emergency Generator 4	PM	0.18	<0.01

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.18	<0.01
		$PM_{2.5}$	0.18	<0.01
		NO_x	24.72	1.24
		CO	15.43	0.77
		SO_2	0.03	<0.01
		VOC	3.50	0.18
EMGEN5	Emergency Generator 5	PM	0.22	0.01
		PM_{10}	0.22	0.01
		$PM_{2.5}$	0.22	0.01
		NO_x	30.90	1.55
		CO	19.29	0.96
		SO_2	0.04	<0.01
		VOC	4.37	0.22
BULK1	60" Belt Truss Conveyor	PM	0.34	1.49
		PM_{10}	0.16	0.71
		$PM_{2.5}$	0.02	0.11
BULK2	42" Belt Truss Conveyor	PM	0.51	2.24
		PM_{10}	0.24	1.06
		$PM_{2.5}$	0.04	0.16
BULK3	42" Belt Truss Conveyor	PM	0.26	1.12
		PM_{10}	0.12	0.53
		$PM_{2.5}$	0.02	0.08
BULK4	42" Belt Truss Conveyor	PM	0.26	1.12
		PM_{10}	0.12	0.53
		$PM_{2.5}$	0.02	0.08
BULK5	36" Belt Truss Conveyor	PM	0.17	0.75
		PM_{10}	0.08	0.35
		$PM_{2.5}$	0.01	0.05
BULK6	36" Belt Truss Conveyor	PM	0.26	1.12

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.12	0.53
		$PM_{2.5}$	0.02	0.08
BULK7	42" Belt Truss Conveyor	PM	0.34	1.49
		PM_{10}	0.16	0.71
		$PM_{2.5}$	0.02	0.11
BULK8	36" Belt Channel Transfer Conveyor	PM	0.17	0.75
		PM_{10}	0.08	0.35
		$PM_{2.5}$	0.01	0.05
BULK9	36" Belt Truss Radial Stacker with Driven Undercarriage	PM	0.17	0.75
		PM_{10}	0.08	0.35
		$PM_{2.5}$	0.01	0.05
BULK10	36" Belt Channel Transfer Conveyor	PM	0.17	0.75
		PM_{10}	0.08	0.35
		$PM_{2.5}$	0.01	0.05
BULK11	36" Belt Truss Radial Stacker with Driven Undercarriage	PM	0.17	0.75
		PM_{10}	0.08	0.35
		$PM_{2.5}$	0.01	0.05
BULK12	36" Belt Channel Transfer Conveyor	PM	0.17	0.75
		PM_{10}	0.08	0.35
		$PM_{2.5}$	0.01	0.05
BULK13	36" Belt Truss Radial Stacker with Driven Undercarriage	PM	0.17	0.75
		PM_{10}	0.08	0.35
		$PM_{2.5}$	0.01	0.05
BULK14	36" Belt Truss Stationary Stacker	PM	0.17	0.75
		PM_{10}	0.08	0.35
		$PM_{2.5}$	0.01	0.05
BULK15	36" Belt Truss Stationary Stacker	PM	0.17	0.75
		PM_{10}	0.08	0.35
		$PM_{2.5}$	0.01	0.05

Emission Sources - Maximum Allowable Emission Rates

BULK16	36" Belt Channel Transfer Conveyor	PM	0.09	0.37
		PM_{10}	0.04	0.18
		$PM_{2.5}$	0.01	0.03
BULK17	Feed Hopper with Grizzly Top	PM	0.17	0.75
		PM_{10}	0.08	0.35
		$PM_{2.5}$	0.01	0.05
BULK18	Tabor 50"x10' Pan Feeder with Grizzly Fingers	PM	0.17	0.75
		PM_{10}	0.08	0.35
		$PM_{2.5}$	0.01	0.05
BULK19	Overband Manger	PM	0.02	0.09
		PM_{10}	0.01	0.04
		$PM_{2.5}$	0.00	0.01
BULK20	Head Drum Magnet	PM	0.17	0.75
		PM_{10}	0.08	0.35
		$PM_{2.5}$	0.01	0.05
BULK21	Head Drum Magnet	PM	0.26	1.12
		PM_{10}	0.12	0.53
		$PM_{2.5}$	0.02	0.08
BULK22	Tabor 6'x20' Double Deck Screen	PM	0.20	0.87
		PM_{10}	0.07	0.29
		$PM_{2.5}$	0.01	0.04
BULK23	Syntron Feeder with 10'x10' Storage Hopper Above	PM	0.13	0.56
		PM_{10}	0.06	0.26
		$PM_{2.5}$	0.01	0.04
BULK24	MxLanahan 3254 Jaw w/ Hydraulic Release	PM	0.05	0.24
		PM_{10}	0.02	0.11
		$PM_{2.5}$	0.00	0.02
BULK25	Tabor 62"x12" Pan Feeder	PM	0.13	0.56
		PM_{10}	0.06	0.26

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.01	0.04
BULK26	Dings 30"x72" Deep Draw Drum Magnet	PM	0.13	0.56
		PM_{10}	0.06	0.26
		$PM_{2.5}$	0.01	0.04
BULK27	Taboe 6'x16' Double Dexck Screen	PM	0.13	0.58
		PM_{10}	0.04	0.19
		$PM_{2.5}$	0.01	0.03
SLGSKP1	Slag Stockpile 1	PM	0.79	3.44
		PM_{10}	0.37	1.63
		$PM_{2.5}$	0.06	0.25
SLGSKP2	Slag Stockpile 2	PM	0.14	0.63
		PM_{10}	0.07	0.30
		$PM_{2.5}$	0.01	0.05
SLGSKP3	Slag Stockpile 3	PM	0.00	0.01
		PM_{10}	0.00	0.00
		$PM_{2.5}$	0.00	0.00
SCRPSKP1	Scrap Metal Stockpile 1	PM	1.51	6.63
		PM_{10}	0.72	3.13
		$PM_{2.5}$	0.11	0.47
SCRPSKP2	Scrap Metal Stockpile 2	PM	1.51	6.63
		PM_{10}	0.72	3.13
		$PM_{2.5}$	0.11	0.47
SCRPSKP3	Scrap Metal Stockpile 3	PM	1.51	6.63
		PM_{10}	0.72	3.13
		$PM_{2.5}$	0.11	0.47
SCRPSKP4	Scrap Metal Stockpile 4	PM	1.51	6.63
		PM_{10}	0.72	3.13
		$PM_{2.5}$	0.11	0.47
T1	Diesel Tank	VOC	0.03	<0.01

Emission Sources - Maximum Allowable Emission Rates

T7	Gasoline Tank	VOC	10.69	0.70
	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: December 27, 2022