

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 (9)	
			lbs/hour	TPY (4)
LWS	Lime Warehouse Baghouse and Alloy Aggregate Baghouse Stack	PM	5.98	26.17
		PM ₁₀	5.98	26.17
		PM _{2.5}	5.98	26.17
LSTBS	LF and Stock Tank Baghouse Stack (6) FINs: EAF Elevated Bunker, LF Elevated Lime Bunker, and Ladle Furnace	PM	4.54	19.89
		PM ₁₀	4.54	19.89
		PM _{2.5}	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 (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 _{2.5}	20.18	88.38
		PM _{front half}	15.13	66.28
		PM _{10 front half}	15.13	66.28
		Cd	<0.004	0.02

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (9)	
			lbs/hour	TPY (4)
		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
		PM _{2.5}	3.33	5.06
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
		PM _{2.5}	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
		PM _{2.5}	0.43	0.72

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (9)	
			lbs/hour	TPY (4)
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
		PM _{2.5}	0.30	0.58
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
		PM _{2.5}	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
		PM _{2.5}	<0.01	<0.01
PCLWV	Premium Connecting Line Workshop Vent (7)	CO	1.27	5.22
		VOC	1.08	4.38

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			lbs/hour	TPY (4)
	FINs: OUPCLW, ELPCLW, EMPCLW, PUPCLW, DUPCLW, BCPS2, and PSGPCLW	PM	0.10	0.40
		PM ₁₀	0.09	0.38
		PM _{2.5}	0.09	0.38
HRPPWV	Hot Rolling and Pipe Processing Workshop Vent (6) and (7)	NO _x	0.08	0.03
		CO	1.46	6.22
		VOC	12.88	38.83
	FINs: HRL, ABS1, ABS2, BPCS1, OUHRW, ELHRW, EMHRW, PUHRW, DUHRW, ABS3, PSGHRPPWV, HTR1, and HTR2	SO ₂	<0.01	<0.01
		PM	0.41	1.62
		PM ₁₀	0.20	0.79
		PM _{2.5}	0.20	0.79
		Cr	<0.003	<0.012
		Cr VI	0.002	0.008
		Mn	<0.01	<0.006
HRLDS	Hot Rolling Line Dedusting Stack FINs: HRL, BSCS, PM, EM, and SM	PM	2.74	8.00
		PM ₁₀	2.74	8.00
		PM _{2.5}	2.74	8.00
ODPSS1	Outdoor Drop Points, Scrap Steel by Truck 10 (5)	PM	0.03	0.10
		PM ₁₀	0.01	0.05
		PM _{2.5}	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
		PM _{2.5}	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
		PM _{2.5}	<0.01	<0.01
ODPS1	Outdoor Drop Point Slag-1 (5)	PM	<0.01	0.01
		PM ₁₀	<0.01	<0.01

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			lbs/hour	TPY (4)
		PM _{2.5}	<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
		PM _{2.5}	0.02	0.02
ODPS2	Outdoor Drop Point Slag-2*2 (5)	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<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
		PM _{2.5}	<0.01	<0.01
ODPS3	Outdoor Drop Point Slag-3 (5)	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
OSPSS	Outdoor Storage Piles, Scrap Steel (5)	PM	0.23	1.00
		PM ₁₀	0.11	0.50
		PM _{2.5}	0.11	0.50
OSPFST	Outdoor Storage Pile, First Sedimentation Tank (5)	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
OSPS1	Outdoor Storage Pile, Slag-1 (5)	PM	0.06	0.26
		PM ₁₀	0.03	0.13
		PM _{2.5}	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
		PM _{2.5}	0.11	0.50
OSPS2	Outdoor Storage Pile, Slag-2 (5)	PM	0.06	0.26
		PM ₁₀	0.03	0.13

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (9)	
			lbs/hour	TPY (4)
		PM _{2.5}	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
		PM _{2.5}	0.11	0.50
N6CCT	Contact Cooling Tower No. 6 (5)	PM	0.03	0.14
		PM ₁₀	0.03	0.14
		PM _{2.5}	0.03	0.14
N7CCT	Contact Cooling Tower No. 7 (5)	PM	0.02	0.07
		PM ₁₀	0.02	0.07
		PM _{2.5}	0.02	0.07
PPCCT	Pipe Processing Contact Cooling Tower (5)	PM	0.03	0.14
		PM ₁₀	0.03	0.14
		PM _{2.5}	0.03	0.14
SMWTF	Steel Making Water Treatment Facility (5)	VOC	0.10	0.10
		PM	0.10	0.10
		PM ₁₀	0.10	0.10
		PM _{2.5}	0.10	0.10
WTFPR	Water Treatment Facility for Pipe Rolling Mill (5)	VOC	0.10	0.10
		PM	0.10	0.10
		PM ₁₀	0.10	0.10
		PM _{2.5}	0.10	0.10
CMSCS1	Caster Spray Chamber Stack 1	NO _x	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
		PM _{2.5}	0.07	0.22

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (9)	
			lbs/hour	TPY (4)
		Pb	0.001	0.002
CMSCS2	Caster Spray Chamber Stack 2	NO _x	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
		PM _{2.5}	0.07	0.22
		Pb	0.001	0.002
UVCS1	UV Coating Stack 1	VOC	<0.01	0.01
		PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
UVCS2	UV Coating Stack 2	VOC	<0.01	0.01
		PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
UVCS3	UV Coating Stack 3	VOC	<0.01	0.01
		PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
UVCS4	UV Coating Stack 4	VOC	1.11	3.39
		PM	0.06	0.20
		PM ₁₀	0.02	0.06
		PM _{2.5}	0.02	0.06
VDSS	VD Steam Stack	NO _x	0.73	2.19
		CO	29.10	87.43
		VOC	0.09	0.26

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (9)	
			lbs/hour	TPY (4)
		SO ₂	0.02	0.04
		PM	0.29	0.87
		PM ₁₀	0.29	0.87
		PM _{2.5}	0.29	0.87
QFS2	Quench Furnace 2 Stack	NO _x	6.36	11.04
		CO	5.34	9.27
		SO ₂	0.04	0.07
		VOC	0.35	0.61
		PM	0.48	0.84
		PM ₁₀	0.48	0.84
		PM _{2.5}	0.48	0.84
		HAPs	0.12	0.21
TFS2	Tempering Furnace 2 Stack	NO _x	5.30	8.83
		CO	4.45	7.42
		SO ₂	0.03	0.05
		VOC	0.29	0.49
		PM	0.40	0.67
		PM ₁₀	0.40	0.67
		PM _{2.5}	0.40	0.67
		HAPs	<0.01	<0.01
HTFUG	Heat Treatment Fugitives (5) FINs: Descaling, Descaling Baghouse, Maintenance Welding, Pipe Marking, Manual Regrinding, and Greasing Operations	VOC	2.01	2.65
		PM	1.16	2.57
		PM ₁₀	1.16	2.57
		PM _{2.5}	1.16	2.57
		CO	0.30	1.37
		HAPs	0.04	0.15
PCFUG		VOC	1.23	4.28

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (9)	
			lbs/hour	TPY (4)
	Pipe Coupling Fugitives (5) FINs: Cutting, Threading, and Marking, Printing and Inspection, Equipment Lubrication, and Oil Evaporation	PM	0.48	1.89
		PM ₁₀	0.48	1.89
		PM _{2.5}	0.48	1.89
		HAPs	<0.01	<0.01
CS4	Coating Stack No. 1 FIN: Spray Booth	VOC	2.14	6.74
		PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
		C ₆ H ₅ CH ₃	0.60	2.38
		CH ₃ COOC ₂ H ₅	0.37	1.43
CS5	Coating Stack No. 2	VOC	1.98	6.26
		PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
		C ₆ H ₅ CH ₃	0.56	2.21
		CH ₃ COOC ₂ H ₅	0.33	1.32
CS6	Coating Stack No. 3	VOC	1.98	6.26
		PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
		C ₆ H ₅ CH ₃	0.56	2.21
		CH ₃ COOC ₂ H ₅	0.33	1.32
PHOS1	Phosphatizing Stack No. 1 (8) FINs: Alkali Wash Tanks, Activation Tank, Phosphate Tanks, Anti Rust Tank, and Rinse Tank	PM	0.10	0.10
		PM ₁₀	0.10	0.10
		PM _{2.5}	0.10	0.10

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (9)	
			lbs/hour	TPY (4)
PHOS2	Phosphatizing Stack No. 2 (8) FINs: Alkali Wash Tank, Activation Tank, Phosphate Tank, Anti Rust Tank, and Rinse Tank	PM	0.10	0.10
		PM ₁₀	0.10	0.10
		PM _{2.5}	0.10	0.10
WW	Wastewater (5)	VOC	0.10	0.10
		PM	0.10	0.10
		PM ₁₀	0.10	0.10
		PM _{2.5}	0.10	0.10
ALL	ALL	Individual HAPs	-	<10
		Combination of 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
SO₂ - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
PM₁₀ - 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
C₆H₅CH₃ - toluene
CH₃COOC₂H₅ - ethyl acetate
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, PM₁₀, and PM_{2.5} emission rates.
- (7) The PM/PM₁₀/PM_{2.5} emission rates may include trace amounts of non-speciated metals including, but not limited to Cr, Pb, and Mn.
- (8) NaOH, Na₂SiO₃, Na₂CO₃, Mn(H₂PO₄)₂, and Na₄P₂O₇ included in the PM, PM₁₀, and PM_{2.5} emission rates.

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(9) Planned maintenance, startup, and shutdown (MSS) emissions are included.

Date: June 23, 2020