

Emission Sources - Maximum Allowable Emission Rates

Permit Number 28239

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 (8)	
			lbs/hour	TPY (4)
1S2	Line 1 Chrome Scrubber Stack (Chrome Plate Tank 7) (6)	PM	3.50 E -06	1.53 E-05
		PM ₁₀	3.50 E -06	1.53 E-05
		PM _{2.5}	3.50 E -06	1.53 E-05
		Cr	1.68 E-06	7.36 E-06
1S3	Line 1 Process Tanks General Scrubber Stack (Cr Drag Out Tnk 6, Electro Clean Tnks 12 & 13, Electro Rinse Tnk 14, Electro Acid Tnk 16, Acid Rinse Tnk 17, Acid Dip Tnk 18, Acid Rinse Tnk 20, Ni Dragout Tnk 21, Ni Plate Tnks 22-25, and Redox Tnk) (7)	PM	1.17 E-03	5.12 E-3
		PM ₁₀	1.17 E-03	5.12 E-3
		PM _{2.5}	1.17 E-03	5.12 E-3
		Cr	2.15 E-06	9.4 E-06
		Ni	1.36E-04	5.96 E-04
		Acid	9.11 E-04	3.99 E-03
		NaF	1.17 E-05	5.13 E-05
		K ₄ P ₂ O ₇	2.58 E-05	1.13E-04
		K ₂ O ₃ Si	8.05E-05	3.53E-04
		KOH	1.61 E-06	7.05 E-06
2B1	Line 2 Process Tank Blower Stack (Cr Drag Out Tnk 9, Electro Clean Tnks 15, 16, & 21, Electro Rinse Tnk 17, Electro Acid Tnk 19, Acid Rinse Tnk 20, Acid Dip Tnk 23, Ni Rinse Tnks 25 & 26, Ni Drag Out Tnk 27, and Ni Plate Tnks 28-31) (7)	PM	0.06	0.24
		PM ₁₀	0.06	0.24
		PM _{2.5}	0.06	0.24
		Cr	9.29 E-06	4.07 E-05
		Ni	6.79 E-03	0.03
		Acid	0.05	0.20
		NaF	1.5 E-05	6.59 E-05
		K ₄ P ₂ O ₇	1.93 E-03	8.46 E-03

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		K ₂ O ₃ Si	2.41 E-04	1.06 E-03
		KOH	1.21 E-04	5.29 E-04
2S1	Line 2 Chrome Scrubber Stack (Chrome Plate Tank 10)	PM	7.00 E-06	3.07 E-05
		PM ₁₀	7.00 E-06	3.07 E-05
		PM _{2.5}	7.00 E-06	3.07 E-05
		Cr	3.36 E-06	1.47 E-05
FUG1	Line 1 & 2 Plating, Process, and Redox Tank Fugitives (7)	PM	5.70 E-3	0.01
		PM ₁₀	5.70 E-3	0.01
		PM _{2.5}	5.70 E-3	0.01
		Cr	1.30 E-05	4.37 E-05
		Ni	7.16 E-04	1.93 E-03
		Acid	4.77 E-03	0.01
		NaF	2.38 E-06	7.73 E-06
		K ₄ P ₂ O ₇	1.69 E-04	3.99 E-04
		K ₂ O ₃ Si	2.12 E-05	4.98 E-05
		KOH	1.06 E-05	2.49 E-05
B1	Boiler 1 Stack	NO _x	0.66	2.88
		CO	0.55	2.42
		VOC	0.04	0.16
		SO ₂	<0.01	0.02
		PM	0.05	0.22
		PM ₁₀	0.05	0.22
		PM _{2.5}	0.05	0.22
B2	Boiler 2 Stack	NO _x	0.33	1.44
		CO	0.28	1.21
		VOC	0.02	0.08
		SO ₂	<0.01	<0.01
		PM	0.02	0.11
		PM ₁₀	0.02	0.11

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		PM _{2.5}	0.02	0.11
BEC-1	Edge Coating Booth Stack (Clear and Black Edge Coating, Top Coat/Sanding Sealer, and Spray Gun Cleaning)	VOC	12.71	13.22
		PM	0.001	<0.001
		PM ₁₀	0.001	<0.001
		PM _{2.5}	<0.0001	<0.0001
FUG2	Ovens (Dryer/Cook On Oven, Burn Off Oven, and Heat Clean/Wash Tank Heater)	NO _x	0.20	0.86
		CO	0.16	0.72
		VOC	0.01	0.05
		SO ₂	<0.01	<0.01
		PM	0.01	0.07
		PM ₁₀	0.01	0.07
		PM _{2.5}	0.01	0.07
FUG3	Miscellaneous Process Fugitives (Wax Removal Solvent, Laminate Adhesive and Wax Application)	VOC	5.43	5.65
PT-1	Perma Tuff Edge Coating Booth Stack No.1	PM	<0.001	<0.001
		PM ₁₀	<0.001	<0.001
		PM _{2.5}	<0.0001	<0.0001
PT-2	Perma Tuff Edge Coating Booth Stack No 2	PM	<0.001	<0.001
		PM ₁₀	<0.001	<0.001
		PM _{2.5}	<0.0001	<0.0001

- (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

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PM _{2.5}	- particulate matter equal to or less than 2.5 microns in diameter
CO	- carbon monoxide
Cr	chrome
Ni	nickel
NaF	sodium fluoride
K ₄ P ₂ O ₇	potassium pyrophosphate
K ₂ O ₃ Si	potassium silicate
KOH	potassium hydroxide
Acid	hydrochloric or sulfuric

- (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) Cr included in the PM.
- (7) Cr, Ni, NaF, K₄P₂O₇, K₂O₃Si, KOH, and acid included in the PM.
- (8) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit and will need separate authorization unless the activity can meet conditions of 30 TAC 116.119.

Date: November 14, 2016