

Emission Sources - Maximum Allowable Emission Rates

Permit Number 1090

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 (5)	
			lbs/hour	TPY (4)
1	Heaters, Dryers, and Furnaces	PM	0.81	3.60
		VOC	0.64	2.85
		SO ₂	0.05	0.22
		NO _x	2.92	13.72
		CO	2.26	10.66
2	Steel Shot Blasting	PM	0.33	0.45
4A and 4B	Mechanical Plating	VOC	0.05	0.21
		HCl	0.35	1.52
		CuCl ₂	0.01	0.04
4C	Stainless Steel Cleaning/Passivating	HF	0.02	0.08
		HNO ₃	0.03	0.13
5	Dichromate Coating	HNO ₃	< 0.01	0.01
		HF	< 0.01	< 0.01
		VOC	0.06	0.52
7B	Dip/Spin Operation and Zinc Phosphate Line	VOC	0.24	0.78
		H ₃ PO ₄	< 0.01	< 0.01
		H ₂ CrO ₄	< 0.01	< 0.01
7E	Zinc Phosphate Coating Line	H ₃ PO ₄	< 0.01	< 0.01
		H ₂ CrO ₄	< 0.01	< 0.01
8	Wastewater Treatment	SO ₂	0.01	0.03

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9A	Electroplating	HCl	0.38	1.67
		H ₂ O ₂	< 0.01	0.03
		PM	< 0.01	0.02
9B	Electroplating	HCl	0.62	2.70
		NH ₃	< 0.01	< 0.01
		H ₂ O ₂	< 0.01	0.03
		HNO ₃	< 0.01	0.03
		VOC	0.04	0.19
		PM	0.02	0.08
9C	Aluminum Anodizing Line	H ₂ SO ₄	< 0.01	< 0.01
		CH ₃ COOH	< 0.01	< 0.01
10A	Chromate Solution Dryer	PM	0.01	0.05
		VOC	0.09	0.38
		SO ₂	< 0.01	< 0.01
		NO _x	0.16	0.69
		CO	0.13	0.58
		HNO ₃	< 0.01	< 0.01
10B	Wax Lube Dryers	PM	< 0.01	0.02
		VOC	< 0.01	0.01
		SO ₂	< 0.01	< 0.01
		NO _x	0.05	0.21
		CO	0.04	0.18
		HNO ₃	0.21	0.05

10C	Stainless Steel Cleaning/ Passivating Dryer	PM	< 0.01	< 0.01
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		VOC	< 0.01	< 0.01
		SO ₂	< 0.01	< 0.01
		NO _x	0.02	0.11
		CO	0.02	0.09
		HNO ₃	0.21	0.05
15	Waste Water Sludge Dryer	PM	0.40	1.74
		VOC	0.01	0.04
		SO ₂	< 0.01	< 0.01
		NO _x	0.15	0.66
		CO	0.13	0.55
16	Latex Paint Operation Fugitives	VOC	0.43	0.60
		PM	0.02	0.02
F1	General Maintenance	VOC	5.08	1.94
F2	HCl Storage Tank	HCl	0.01	0.01
F3	Research and Development	VOC	0.05	0.05
		HCl	0.03	0.03
F4	Degreasers	VOC	0.10	0.45
F5	Dip/Spin Operation	VOC	0.26	0.52

(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) CH₃COOH - acetic acid
 NH₃ - ammonia
 CO - carbon monoxide
 H₂CrO₄ - chromic acid
 CuCl₂ - copper chloride
 HCl - hydrogen chloride
 HF - hydrogen fluoride
 H₂O₂ - hydrogen peroxide
 HNO₃ - nitric acid
 PM - total particulate matter, suspended in the atmosphere, including PM₁₀
 PM₁₀ - total particulate matter equal to or less than 10 microns in diameter.

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H₃PO₄ - phosphoric acid
SO₂ - sulfur dioxide
H₂SO₄ - sulfuric acid
NO_x - total oxides of nitrogen
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

(5) The allowable emission rates include planned maintenance, startup, and shutdown activities.

Date: June 21, 2013