

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 38383

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. 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)	<u>Emission Rates</u>	
			lb/hr	TPY*
N1	Fluoride Ion Cleaning Furnaces (FR-31)	Argon	51.85	9.99
		Hydrogen	1.95	7.14
		Hydrogen Fluoride	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
N2	Fluoride Ion Cleaning Furnaces (FR-25)	Argon	41.48	7.70
		Hydrogen	1.56	5.50
		Hydrogen Fluoride	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
L	Glo-Bar Furnace (FR- 01)	Argon	10.37	3.98
		Hydrogen	0.52	1.80
		PM ₁₀	0.01	0.04
M	Glo-Bar Furnace (FR- 20)	Argon	10.37	4.00
		Hydrogen	0.52	1.81
		PM ₁₀	0.01	0.04
Q	Glo-Bar Furnace (FR- 03)	Argon	10.37	4.06
		Hydrogen	0.52	1.83
		PM ₁₀	0.01	0.04
R	Glo-Bar Furnace (FR- 15)	Argon	10.37	4.09
		Hydrogen	0.52	1.85
		PM ₁₀	0.01	0.04
E	Vacuum Furnace (FR- 08)	PM ₁₀	<0.01	<0.01
		VOC	0.05	0.01
F	Vacuum Furnace (FR- 10)	PM ₁₀	<0.01	<0.01
		VOC	0.05	0.01

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G	Vacuum Furnace (FR-09)	PM ₁₀	<0.01	<0.01
H	Vacuum Furnace (FR-05)	PM ₁₀	<0.01	<0.01
I	Vacuum Furnace (FR-02)	PM ₁₀	<0.01	<0.01
J	Vacuum Furnace (FR-19)	PM ₁₀ VOC	<0.01 0.05	<0.01 0.01
V	Vacuum Furnace (FR-44)	PM ₁₀ VOC	<0.01 0.05	<0.01 0.01
X	Vacuum Furnace (FR-30)	PM ₁₀ VOC	<0.01 0.05	<0.01 0.02
Z	Vacuum Furnace (FR-45)	PM ₁₀ VOC	<0.01 0.05	<0.01 0.01
C	Vapor Phase Aluminid Furnace (FR-42)	PM ₁₀	<0.01	<0.01
B	Vapor Phase Aluminide Furnace (FR-42)	Argon Hydrogen PM ₁₀	124.44 1.04 0.01	26.14 4.15 0.05
K	Vapor Phase Aluminide Furnace (FR-43)	PM ₁₀	<0.01	<0.01
D	Vapor Phase Aluminide Furnace (FR-43)	Argon Hydrogen PM ₁₀	124.44 1.04 0.01	26.14 4.15 0.05
O	Sodium Hydroxide Clean, Acid Strip, and Platinum Plating	Acids Bases PM ₁₀ Platinum	0.06 0.01 <0.01 <0.01	0.06 0.01 <0.01 <0.01

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W	Powder Mixing	PM ₁₀	<0.01	<0.01
T	Abrasive Blasting	PM ₁₀	0.03	0.14
BLDG	9 Vacuum Furnaces and Heat Treat Furnace (FR-6)	Argon	154.77	53.58
		Argon	10.37	42.31
U or Y	Plasma Spray	PM ₁₀	<0.01	
		Argon	6.22	
		Hydrogen	0.10	
U and Y	Plasma Spray	PM ₁₀	<0.01	<0.01
		Argon	12.44	2.49
		Hydrogen	0.21	0.04
Site-wide	All Sources	Individual HAP		<10.0
		Total HAPs		<25.0

(1) Emission point identification.

(2) Specific point source names.

(3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

PM - particulate matter

PM₁₀ - particulate matter equal to or less than 10 microns in diameter

Bases - sodium hydroxide

Acids - phosphoric acid, nitric acid, acetic acid, and hydrochloric acid

HAP(s) - hazardous air pollutant(s) as listed in § 112(b) of the Federal Clean Air Act or as amended in Title 40 Code of Federal Regulations Part 63, Subpart C

* Compliance with annual emission limits is based on a rolling 12-month period.

Dated August 16, 2010