

# 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*
A	Fluorescent Penetrant Inspection Spray Booth	VOC	0.004	0.011
N1	Fluoride Ion Cleaning Furnaces (FR-31)	Argon	6.57	8.26
		Hydrogen	5.95	7.49
		Hydrogen Fluoride	<0.01	<0.01
N2	Fluoride Ion Cleaning Furnaces (FR-25)	Argon	6.57	8.26
		Hydrogen	5.95	7.49
		Hydrogen Fluoride	<0.01	<0.01
L	Glo-Bar Furnace (FR-01)	Argon	8.13	14.52
		Hydrogen	0.53	0.92
		VOC	0.013	0.02
M	Glo-Bar Furnace (FR-20)	Argon	7.67	12.16
		Hydrogen	0.48	0.77
		VOC	0.02	0.02
Q	Glo-Bar Furnace (FR-03)	Argon	7.39	13.71
		Hydrogen	0.47	0.86
		VOC	0.01	0.02
R	Glo-Bar Furnace (FR-15)	Argon	6.90	13.91
		Hydrogen	0.44	0.88
		VOC	0.01	0.02
E	Vacuum Furnace (FR-08)	Argon	0.98	1.01
		VOC	<0.01	<0.01
F	Vacuum Furnace (FR-	Argon	1.29	1.01

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	10)	VOC	<0.01	<0.01
G	Vacuum Furnace (FR-09)	Argon VOC	3.70 <0.01	6.35 <0.01
H	Vacuum Furnace (FR-05)	Argon VOC	4.37 <0.01	12.44 <0.01
I	Vacuum Furnace (FR-02)	Argon VOC	2.38 <0.01	3.18 <0.01
J	Vacuum Furnace (FR-19)	Argon VOC	1.70 <0.01	3.09 <0.01
V	Vacuum Furnace (FR-44)	Argon VOC	5.85 <0.01	10.84 <0.01
X	Vacuum Furnace (FR-30)	Argon VOC	4.80 <0.01	7.93 <0.01
Z	Vacuum Furnace (FR-45)	Argon VOC	5.14 <0.01	9.30 <0.01
B and C	Vapor Phase Aluminide Furnace (FR-42)	Argon Hydrogen VOC	24.46 3.18 0.03	44.27 8.92 0.02
D and K	Vapor Phase Aluminide Furnace (FR-43)	Argon Hydrogen VOC	25.97 3.38 0.04	32.54 8.49 0.02
O and P	Sodium Hydroxide Clean and Acid Strip	Acids Bases	<0.01 <0.01	0.02 <0.01
W	Powder Mixing	PM <sub>10</sub>	<0.01	0.014
T	Abrasive Blasting	PM <sub>10</sub>	0.02	0.06
U	Plasma Spray	PM <sub>10</sub>	0.01	0.02

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Y	Plasma Spray	PM <sub>10</sub>	0.01	0.02
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(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, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>

PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter

HCl - hydrogen chloride

HF - hydrogen fluoride

Bases - sodium hydroxide

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

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

Dated January 30, 2008