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, 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)
		Hydrogen	1.95	7.14
N1	Fluoride Ion Cleaning	Hydrogen Fluoride	<0.01	<0.01
NI.		РМ	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
		Hydrogen	1.56	5.50
N2	Fluoride Ion Cleaning	Hydrogen Fluoride	<0.01	<0.01
VZ	Tridoride for Clearing	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
	Glo-Bar Furnace (FR-01)	Hydrogen	0.52	1.80
L		PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
М	Glo-Bar Furnace (FR-20)	Hydrogen	0.52	1.81
		PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
Q	Glo-Bar Furnace (FR-03)	Hydrogen	0.52	1.83
		PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
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Project Number: 362729

R	Glo-Bar Furnace (FR-15)	Hydrogen	0.52	1.85
	(114-13)	PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
E	Vacuum Furnace (FR-08)	voc	0.05	0.02
	(1100)	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
F	Vacuum Furnace (FR-10)	voc	0.05	0.02
	(11(10)	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
G	Vacuum Furnace (FR-09)	PM	<0.01	<0.01
	(111 03)	PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
Н	Vacuum Furnace (FR-05)	PM	<0.01	<0.01
	(1103)	PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
1	Vacuum Furnace (FR-02)	PM	<0.01	<0.01
	(111 02)	PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
J	Vacuum Furnace (FR-19)	VOC	0.05	0.02
	(11/13)	РМ	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01

V	Vacuum Furnace (FR-44)	VOC	0.05	0.02
	(Horizontal Vent)	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
X	Vacuum Furnace (FR-30)	voc	0.05	0.02
	(Horizontal Vent)	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
Z	Vacuum Furnace (FR-45)	voc	0.05	0.02
	(Horizontal Vent)	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
С	Vapor Phase Aluminide Furnace	PM	<0.01	<0.01
	Adminide Fundce	PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
В	Vapor Phase Aluminide Furnace	Hydrogen	1.04	4.15
	Adminide Fundce	PM	0.01	0.05
		PM ₁₀	0.01	0.05
		PM _{2.5}	0.01	0.05
К	Vapor Phase Aluminide	PM	<0.01	<0.01
	Aldillillide	PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
D	Vapor Phase Aluminide	Hydrogen	1.04	4.15
	Adminide	РМ	0.01	0.05
		PM ₁₀	0.01	0.05
		PM _{2.5}	0.01	0.05

O	Sodium Hydroxide Clean, Acid Strip, and	Acids	0.06	0.06
	Platinum Plating	Bases	<0.01	0.01
		PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
		Platinum	<0.01	<0.01
W	Powder Mixing	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
Т	Abrasive Blasting	PM	0.03	0.14
		PM ₁₀	0.03	0.14
		PM _{2.5}	0.03	0.14
U and Y	Plasma Spray	Hydrogen	0.21	0.10
		PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
AA1	CVD 2025	HCI	0.10	0.19
AA2	CVD 2029	HCI	0.10	0.19
AA3	Platinum Plating and	HCI	<0.01	0.01
	HCI Storage	PM	<0.01	0.01
		PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	0.01
ВВ	Platinum Plating	PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
		Ammonium Hydroxide	0.01	0.04
Site-wide	All Sources	Individual HAP		<10.0
		Total HAPs		<25.0

Project Number: 362729

(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

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

Bases - sodium hydroxide

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

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) The allowable emission rates include planned startup and shutdown.

Date: _____ December 20, 2023

Project Number: 362729