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, 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 (4)	
			lbs/hour	TPY (5)
N1	Fluoride Ion Cleaning	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	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

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E	Vacuum Furnace (FR-08)	PM_{10}	<0.01	<0.01
		VOC	0.05	0.02
F	Vacuum Furnace (FR-10)	PM_{10}	<0.01	<0.01
		VOC	0.05	0.02
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}	<0.01	<0.01
		VOC	0.05	0.02
V	Vacuum Furnace (FR-44)	PM_{10}	<0.01	<0.01
		VOC	0.05	0.02
X	Vacuum Furnace (FR-30)	PM_{10}	<0.01	<0.01
		VOC	0.05	0.02
Z	Vacuum Furnace (FR-45)	PM_{10}	<0.01	<0.01
		VOC	0.05	0.02
C	Vapor Phase Aluminid	PM_{10}	<0.01	<0.01
B	Vapor Phase Aluminide	Argon	124.44	26.14
		Hydrogen	1.04	4.15
		PM_{10}	0.01	0.05
K	Vapor Phase Aluminide	PM_{10}	<0.01	<0.01
D	Vapor Phase Aluminide	Argon	124.44	26.14
		Hydrogen	1.04	4.15
		PM_{10}	0.01	0.05
O	Sodium Hydroxide Clean, Acid Strip,	Acids	0.06	0.06

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		Bases	0.01	0.01
		PM_{10}	<0.01	<0.01
		Platinum	<0.01	<0.01
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	5.0
		Hydrogen	0.21	0.1
Site-wide	All Sources	Individual HAP		<10.0
		Total HAPs		<25.0

(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 PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
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) The allowable emission rates include planned maintenance, startup, and shutdown.
(5) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

Date: December 11, 2013