EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 84256

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)	Emission Rates	
			lb/hr	TPY*
FUG-PM	Site-wide Particulate Matter Fugitives	PM PM_{10}	0.04 0.03	0.05 0.05
FUG-VOC	Site-wide Material Usage	VOC	4.88	2.19
FUG-ARGON, VF1, VF2, VF4, VF5, VF6, VF7, VF8, PLASMA1-2, PLASMA4, HARP1, HARP2, HARP3, FICSCRUB1, FICSCRUB2	Site-wide Argon Usage	Argon	562.83	1,680.61
FUG-HELIUM, PLASMA1-2, PLASMA3, and PLASMA4	Site-wide Helium Usage	Helium	6.64	29.09
FUG-HYDROGEN, PLASMA3, PLASMA4, FICSCRUB1, and	Site-wide Hydrogen Usage	Hydrogen	5.36	13.34

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FICSCRUB2

FUG-ACIDGAS	Site-wide Fugitive Acidic Gas Usage	Acidic Gases	0.26	1.15
VF1, VF2, VF4, VF5, VF6, VF7, and VF8	Vacuum Furnace Nos. 1, 2, 4, 5, 6, 7, 8 Emissions Cap	PM/PM_{10} VOC Exempt Solvents	0.34 1.95 0.18	1.21 0.12 0.01
PLASMA1-2, PLASMA3, and PLASMA4	Metco and Plasma Dyne Spray Booths and Plasma Spray Booth No. 4 and Plasma Spray Booth No. 3 Emissions Cap	PM/PM_{10}	<0.01	<0.01
HARP1, HARP2, HARP3	Harper Coating Furnace No. 1, 2, and 3 Emissions Cap	PM/PM_{10}	0.02	0.07
WCT1	Water Cooling Tower No. 1	PM/PM_{10}	0.06	0.26
WCT2	Water Cooling Tower No. 2	PM/PM_{10}	0.09	0.39
WCT3	Water Cooling Tower No. 3	PM/PM_{10}	0.09	0.39
WCT4a	Water Cooling Tower No. 4a	PM/PM_{10}	0.06	0.26
WCT4b	Water Cooling Tower No. 4b	PM/PM_{10}	0.06	0.26
HT1	Hydrotron Mixing Booth No. 1	PM/PM_{10} VOC Exempt Solvents	<0.01 0.07 0.05	<0.01 0.18 0.13

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HT2	Hydrotron Mixing Booth No. 2	PM/PM$_{10}$	<0.01	<0.01
		VOC	0.29	0.79
		Exempt Solvents	0.04	0.09
FICSCRUB1	FIC Scrubber No. 1	HF	<0.01	<0.01
FICSCRUB2	FIC Scrubber No. 2	HF	<0.01	<0.01
CSSCRUB1	Clean and Strip Scrubber No. 1	VOC	0.03	0.01
		Acidic Gases	0.79	*See Cap
CSSCRUB2	Clean and Strip Scrubber No. 2	VOC	0.03	0.01
		Acidic Gases	0.79	*See Cap
CSSCRUB1 and CSSCRUB2	Clean and Strip Scrubber No. 1 and No. 2 Emissions Cap	Acidic Gases		3.46
EMERGEN	Emergency Generator	NO$_x$	2.29	0.57
		CO	0.49	0.12
		PM/PM$_{10}$	0.16	0.04
		VOC	0.19	0.05
		SO$_2$	0.15	0.04
EVAP1	Oily Water Evaporator	NO$_x$	0.15	0.64
		CO	0.12	0.54
		PM/PM$_{10}$	0.01	0.05
		VOC	0.14	0.10
		SO$_2$	<0.01	<0.01
EVAP2	Metal Chloride Evaporator	NO$_x$	0.07	0.32
		CO	0.06	0.27
		PM/PM$_{10}$	<0.01	0.02
		VOC	<0.01	0.02
		SO$_2$	<0.01	<0.01
DRYER1	Sludge Dryer	NO$_x$	0.01	0.04
		CO	<0.01	0.02
		PM/PM$_{10}$	<0.01	<0.01
		VOC	<0.01	<0.01
		SO$_2$	<0.01	<0.01

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OVEN6	Guspro Oven	NO_x	0.02	0.08
		CO	0.01	0.03
		PM/PM_{10}	<0.01	<0.01
		VOC	0.12	<0.01
		SO_2	<0.01	<0.01
Site-wide	Site-wide Sources	Individual HAP		<10.0
		Total HAPs		<25.0

(1) Emission point identification.
(2) Specific point source names.
(3) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.

VOC	-	volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x	-	total oxides of nitrogen
SO_2	-	sulfur dioxide
PM	-	particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$
PM_{10}	-	particulate matter equal to or less than 10 microns in diameter
$PM_{2.5}$	-	particulate matter equal to or less than 2.5 microns in diameter
CO	-	carbon monoxide
HF	-	hydrogen fluoride
HAP	-	hazardous air pollutant 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.

Date <u>February 3, 2009</u>