

# 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, 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	
			lbs/hour	TPY (4)
FUG-PM	Site-wide Particulate Matter Fugitives	PM/PM <sub>10</sub> /PM <sub>2.5</sub>	0.02	0.03
FUG-VOC	Site-wide Material Usage	VOC	4.86	2.18
		Exempt Solvents	0.28	0.13
FUG-ARGON, VF1, VF2, VF3, VF4, VF5, VF6, VF7, VF8, PLASMA1-2, PLASMA4, HARP1, HARP2, HARP3, HARP4, FICSCRUB1, and FICSCRUB2	Site-wide Argon Usage	Argon	586.95	1,767.84
FUG-HELIUM, PLASMA1-2, PLASMA3, and PLASMA4	Site-wide Helium Usage	Helium	6.64	29.09
FUG- HYDROGEN, PLASMA1-2, PLASMA3, PLASMA4, FICSCRUB1, and FICSCRUB2	Site-wide Hydrogen Usage	Hydrogen	5.36	13.34
FUG-ACIDGAS	Site-wide Fugitive Acidic Gas Usage	Acidic Gases	0.26	1.15
VF1, VF2, VF3,VF4, VF5, VF6, VF7, and VF8	Vacuum Furnace Nos. 1, 2, 3, 4, 5, 6, 7, 8 Emissions Cap	PM/PM <sub>10</sub> /PM <sub>2.5</sub>	0.08	0.29
		VOC	2.23	0.12
		Exempt Solvents	0.21	0.01
PLASMA1-2,	Metco and Plasma	PM/PM <sub>10</sub> /PM <sub>2.5</sub>	<0.01	<0.01

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PLASMA3, and PLASMA4	Dyne Spray Booths, Plasma Spray Booth No. 4, and Plasma Spray Booth No. 3 Emissions Cap			
HARP1, HARP2, HARP3, HARP4	Harper Coating Furnace No. 1, 2, 3, and 4 Emissions Cap	PM/PM <sub>10</sub> /PM <sub>2.5</sub>	0.03	0.10
WCT1	Water Cooling Tower No. 1	PM PM <sub>10</sub> PM <sub>2.5</sub>	0.06 <0.01 <0.01	0.26 <0.01 <0.01
WCT2	Water Cooling Tower No. 2	PM PM <sub>10</sub> PM <sub>2.5</sub>	0.09 <0.01 <0.01	0.39 <0.02 <0.01
WCT3	Water Cooling Tower No. 3	PM PM <sub>10</sub> PM <sub>2.5</sub>	0.09 <0.01 <0.01	0.39 <0.02 <0.01
WCT6	Water Cooling Tower No. 6	PM PM <sub>10</sub> PM <sub>2.5</sub>	0.10 <0.01 <0.01	0.42 <0.02 <0.01
WCT7	Water Cooling Tower No. 7	PM PM <sub>10</sub> PM <sub>2.5</sub>	0.15 <0.01 <0.01	0.64 <0.03 <0.01
HT1	Hydrotron Mixing Booth No. 1	PM/PM <sub>10</sub> /PM <sub>2.5</sub>	<0.01	<0.01
		VOC	0.07	0.18
		Exempt Solvents	0.05	0.13
HT2	Hydrotron Mixing Booth No. 2	PM/PM <sub>10</sub> /PM <sub>2.5</sub>	<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

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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 <sub>x</sub>	2.29	0.57
		CO	0.49	0.12
		PM/PM <sub>10</sub> /PM <sub>2.5</sub>	0.16	0.04
		VOC	0.19	0.05
		SO <sub>2</sub>	0.15	0.04
EVAP1	Oily Water Evaporator	NO <sub>x</sub>	0.15	0.64
		CO	0.12	0.54
		PM/PM <sub>10</sub> /PM <sub>2.5</sub>	0.01	0.05
		VOC	0.14	0.10
		SO <sub>2</sub>	<0.01	<0.01
EVAP2	Metal Chloride Evaporator	NO <sub>x</sub>	0.07	0.32
		CO	0.06	0.27
		PM/PM <sub>10</sub> /PM <sub>2.5</sub>	<0.01	0.02
		VOC	<0.01	0.02
		SO <sub>2</sub>	<0.01	<0.01
DRYER1	Sludge Dryer	NO <sub>x</sub>	0.01	0.04
		CO	<0.01	0.02
		PM/PM <sub>10</sub> /PM <sub>2.5</sub>	<0.01	<0.01
		VOC	<0.01	<0.01
		SO <sub>2</sub>	<0.01	<0.01
OVEN6	Guspro Oven	NO <sub>x</sub>	0.02	0.08
		CO	0.01	0.03

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		PM/PM <sub>10</sub> /PM <sub>2.5</sub>	<0.01	<0.01
		VOC	0.11	0.05
		SO <sub>2</sub>	<0.01	<0.01
Site-wide	Site-wide Sources	Individual HAP Total HAPs		<10.0 <25.0

(1) Emission point identification.

(2) Specific point source name.

(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<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as

represented

PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented

PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

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

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: \_\_\_\_\_