Permit No. 9459

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.

Emission	Source	Air Conta	minant	<u>Emissio</u>	n Rates
<u>*</u> Point No. (1)	Name (2)	Name ((3)	lb/hr	TPY
07	EPI Bottle Room	Acids		<<0.01	<<0.01
08	EPI 105 and 106	Silic Hydro Dibor	ic (as As₂O₃) on Dioxide gen Chloride ane chloric Acid	<<0.01 <0.01 0.01 <<0.01 0.03	<<0.01 0.02 0.04 <<0.01 0.14
09	EPI 103 and 104	Silic	ic (as As₂O₃) on Dioxide gen Chloride	<0.01 <0.01 0.03	<<0.01 0.02 0.11
14	Photo	Amm Hexam	methyl oniumde Hydrox ethyldisilazan	e 0.01	0.54
18	WJ999	Phosp	ane fluoric Acid hine (as P₂O₅) on Dioxide	0.02 <<0.01 0.05 <<0.01 0.01	0.06 <<0.01 0.22 <<0.01 0.05
19	WJ 998	Phosp	ane fluoric Acid hine (as P ₂ O ₅) on Dioxide	<0.01 0.05 <<0.01 0.01	0.01 0.22 <<0.01 0.05

Emission	Source Air	Contaminant	<u>Emissio</u>	n Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
21	Silane Burn Tubes	Silicon Dioxide	<0.01	<<0.01
24	ILO	Hydrofluoric Acid Boron Trifluoride (as B ₂ O ₃)	0.01 <<0.01	0.03 <0.01
		Hexafluoroethane VOC	0.04 0.02	0.16 0.08
25	PSG Bottle Room	Acids	<<0.01	<<0.01
27	Implant	Arsenic (as As ₂ O ₃) Phophorous (as P ₂ O ₅) Antimony Trioxide	<0.01 <0.01 <0.01	0.01 0.02 0.02
55	South-Side Sheetmet	al Tetrafluoromet	hane	0.02
		Acetone Xylene Butyl Acetate Hydrofluoric Acid VOC Isoproponal Tetramethyl Ammonium Hydroxide	0.06 0.12 0.01 <0.01 0.01 0.04 0.02	0.27 0.53 0.04 0.02 0.03 0.16 0.09
62	Multi Probe Test Fl <0.01	oor Phosphoric	Acid	<0.01
		Ammonia Hydrochloric Acid Methanol VOC	<0.01 <0.01 <0.01 0.02	<0.01 <0.01 <0.01 0.07

Emission	Source	Air	Contaminant	<u>Emission</u>	Rates
<u>*</u>					
Point No. (1)	Name (2)		Name (3)	<u> 1b/hr</u>	TPY
			Sulfuric Acid	<0.01	<0.01
			Nitric Acid	<0.01	<0.01
			7,613	10.02	10.02
67	Surface Analysi	s Lal	Acid	<0.01	<0.01
			V0C	0.02	0.09
			Nitrous Oxide	<0.01	<0.01
75	B1 Boiler (Boil	1)	PM_{10}	0.14	0.58
	•		VOC	0.05	0.19
			CO	0.12	0.53
			NO_X	1.21	5.30
			SO ₂	0.01	0.03
85	B1 Boiler (Boil	2)	PM_{10}	0.24	1.04
		_,	VOC	0.05	0.22
			CO	3.37	14.77
			NO_X	0.86	3.77
			SO ₂	0.02	0.05
95	B1 Boiler (Boil	3)	PM_{10}	0.18	0.76
		-,	VOC	0.04	0.16
			CO	0.17	0.75
			NO_X	0.81	3.55
			SO ₂	0.34	1.46
104	B1 Emergency Ge 0.01	nerat	tor	VOC	0.06
	(Gen 1)		CO	0.25	<<0.01
			NO_X	0.99	<<0.01
			PM_{10}	0.10	<<0.01

Emission *	Source	Air Contaminant	<u>Emissio</u>	n Rates
– <u>Point No. (1)</u>	Name (2)	Name (3)	lb/hr	TPY
		SO ₂	<0.01	<<0.01
112	B1 Emergency Ge	nerator	VOC	0.05
	(Gen 2)	CO NO_X PM_{10} SO_2	0.20 0.77 0.08 <0.01	<<0.01 <<0.01 <<0.01 <<0.01
116	Solvent MCV Room	m Propylene Glycol	0.01 0.01 0.01 0.23 0.07	0.03 0.03 0.05 0.01 0.01
		2-(2-Butoxyethoxy) Ethanol	3.84	0.12
129	Cafeteria Boile	$\begin{array}{ccc} r & PM_{10} \\ & VOC \\ & CO \\ & NO_X \\ & SO_2 \end{array}$	0.07 0.03 0.12 0.56 <0.01	0.29 0.10 0.52 2.45 0.02

Emission *	Source Ai	r Contaminant	<u>Emissio</u>	n Rates
- Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
133	Source Rebuild Exha	aust Arsenic (as A	s ₂ 0 ₃)	<<0.01
		Phosphorus (as P ₂ O ₅) Antimony Trioxide Boron Trifluoride (as B ₂ O ₃)	<<0.01 <<0.01 <<0.01	<<0.01 <<0.01 <<0.01
202	Houston Deviation Analysis Lab	Nitric Acid Acetic Acid Hydrochloric Acid Hydrofluoric Acid Sulfuric Acid	0.01 <<0.01 <0.01 <0.01 <<0.01	0.03 <0.01 <0.01 <0.01 <0.01
203	Houston Deviation Analysis Lab	Acetone Tetrafluoromethane Hydrofluoric Acid Methanol Nitrous Oxide VOC	0.01 0.01 <0.01 <0.01 <0.01 <0.01	0.02 0.03 0.01 0.02 0.01 0.02
209	B2 Emergency General 0.01 (Gen 3)	CO NO _X PM ₁₀ SO ₂	VOC 0.10 0.40 0.04 <0.01	0.03 <<0.01 <<0.01 <<0.01 <<0.01
211	B2 Boiler (Boil 5)	$\begin{array}{c} PM_{10} \\ VOC \\ CO \\ NO_X \\ SO_2 \end{array}$	0.01 <0.01 0.01 0.05 <0.01	0.03 0.01 0.05 0.21 <0.01

Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	<u>TPY</u>
219	B2 Boiler (Boil	6) PM ₁₀ VOC CO NO _X SO ₂	0.07 0.03 0.12 0.56 <0.01	0.29 0.10 0.52 2.45 0.02
303	Welding Shop	Chromium Cobalt Manganese Nickel PM ₁₀	<<0.01 <<0.01 <0.01 <<0.01 <0.01	<0.01 <0.01 <0.01 <<0.01 <0.01
316	Mod A Boiler (Bo 0.14	vil 7) VOC	PM ₁₀	0.04
		CO NO _x SO ₂	0.02 0.32 0.13 <0.01	1.41 0.57 0.01
419	HF Treatment	Ammonia PM ₁₀ VOC CO NO _x SO ₂	2.00 0.28 0.01 1.12 2.79 0.12	7.00 0.50 0.01 2.00 5.00 0.20
428	Thermal Oxidizer	Hexamethyldisilazane Propylene Glycol Monomethyl Ether Acetate	0.04 2.26	0.04 1.73
		Isoproponal Perchloroethylene Ortho-Dichlorobenzen Phenol	3.80 1.03 e 1.03 0.30	5.36 0.79 0.79 0.23

Emission *	Source	Air Contaminant	Emission	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		Dihydro-2(3H)-Furanor Diethylene Glycol	ne 0.09 0.08	0.37 0.34
		Monobutyl Ether Alkanolamine Dodecylbenzene	0.02 0.59	0.07 0.46
		Sulfonic Acid Acetone Ethanol	<0.01 <0.01	<0.01
		Methyl Siloxane Polymer Ethanolamine	<0.01	0.01 1.52
		n-Methyl-2- Pyrrolidinone	0.41	1.81
		2-(2 Butoxyethoxy) Ethanol	0.38	1.65
		PM_{10} VOC	0.09 0.03	0.36 0.12
		CO NO _X	0.15 5.40	0.64 23.66
		SO ₂	<0.01	0.02
431	Fuel Oil Tank	VOC	0.83	0.04
432	Spent Solvent T	ank Isopropyl Alcohol Propylene Glycol Monomethyl Ether Acetate	0.06 0.01	0.10 0.02
439	Chlorine Room	Chlorine	0.02	<0.01
441	Site Utilities 0.04	Fuel Oil Tank Fuel	0i1	0.83
442	Site Utilities 0.08	Emergency	V0C	0.42
	Generator	CO NO _X	11.67 0.02	2.03 < 0.01

Emission	Source	Air Contaminant	<u>Emissior</u>	Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)		TPY
101116 1101 (1)	Name (2)	Walle (3)	10/111	
		SO ₂	<0.01	<0.01
448	Diesel Fire Pum	p VOC	0.96	0.03
		CO	2.54	0.08
		NO_X	11.73	0.37
		SO_2	0.78	0.03
		PM_{10}	0.84	0.03
452	Scrubber Yard	Acetic Acid	<0.01	<0.01
		Nitric Acid	<0.01	<0.01
		Ammonia	0.48	2.08
		Boron Trichloride (as B ₂ O ₃)	0.01	0.04
		Chlorine	0.09	0.40
		Ammonium Fluoride	<<0.01	<<0.01
		Cupric Sulfate	<0.01	<0.01
		Hexafluoroethane	0.12	0.54
		Tetrafluoromethane	0.03	0.13
		Trifluoromethane	0.02	0.09
		Hydrochloric Acid	0.20	0.85
		Hydrofluoric Acid	0.32	1.39
		Hydrogen Bromide	0.01	0.03
		Tetramethyl	0.99	4.34
		Ammonium Hydroxide	<u>!</u>	
		Nitrogen Trifluoride		<0.01
		Nitrous Oxide	0.03	0.11
		Peroxydisulfuric Aci	d < 0.01	0.01
		Phosphoric Acid	<0.01	<0.01
		Phosphine (as P_2O_5)	<0.01	<0.01
		Silicon Dioxide	0.04	0.16
		Sulfur Hexafluoride	0.06	0.23
		Sulfur Dioxide	<0.01	0.03
		Sulfuric Acid	<0.01	0.02
		Teraethyl Ortho-Silicate	0.01	0.03
		Arsenic (as As ₂ O ₃)	<<0.01	<<0.01
		Diborane	<<0.01	<<0.01

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES
(1) Emission point identification either specific equipment designation or emission point number from plo
plan. (2) Specific point source name. Fo fugitive sources use area name o fugitive source name.
(3) PM ₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is
emitted. VOC - volatile organic compounds as defined in General Rule 101.1 NO $_{\rm X}$ - total oxides of nitrogen SO $_{\rm 2}$ - sulfur dioxide CO - carbon monoxide
* Emission rates are based on and the facilities are limited by the following maximum operating schedule:
<u>24</u> Hrs/day <u>7</u> Days/week <u>52</u> Weeks/year or <u>8,760</u> Hrs/year

Dated_____

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