#### 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 Contaminant	<u>Emissi</u>	<u>on Rates</u>
<u>*</u>				
Point No. (1)	Name (2)	Name (3)	<u>lb/hr</u>	<u>TPY</u>
07	EPI Bottle Room	Acids	<<0.01	<<0.01
08	EPI 105 and 106	Arsenic (as As₂O Silicon Dioxide Hydrogen Chlorid	<0.01	<<0.01 0.02 0.04
09	EPI 103 and 104	Arsenic (as As₂O; Silicon Dioxide Hydrogen Chlorid	<0.01	<<0.01 0.02 0.11
14	Photo	Tetramethyl Ammoniumde Hyd		0.34
	0.04	Hexamethyldisila VOC	0.02	0.01
18	WJ999	Diborane Hydrofluoric Aci Phosphine (as P <sub>2</sub> Silicon Dioxide		<<0.01 0.06 <<0.01 0.05
19	WJ 998	Diborane Hydrofluoric Aci Phosphine (as P <sub>2</sub> Silicon Dioxide		0.01 0.06 <<0.01 0.05
21	Silane Burn Tubes	Silicon Dioxide	<0.01	<<0.01

Emission	Source	Air Contaminant	<u>Emissi</u>	on Rates
<u>*</u> <u>Point No. (1)</u>	Name (2)	Name (3)	1b/hr	TPY
		_		
24	ILO	Hydrofluoric Acid Boron Trifluoride (as B₂O₃)		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 As₂O₃) Phophorous (as P₂O		0.01 <0.01
	0.02	•		
		Antimony Trioxide		0.02
55	South-Side Sheetmeta	l Tetrafluoromethan Acetone	e0.02 0.02	0.06 0.07
		Xylene	0.02	0.53
		Butyl Acetate	0.01	0.04
		Hydrofluoric Acid		0.02
		VOC	<0.01	0.01
		Isoproponal	0.04	0.16
		Tetramethyl Ammonium Hydrox	0.01 ide	0.03
62	Multi Probe Test Floo	•	<0.01	<0.01
			< 0.01	< 0.01
		Hydrochloric Acid Methanol	<0.01	<0.01 <0.01
		VOC	0.02	0.07
			<0.01	<0.01
67	Surface Analysis Lab		<0.01	<0.01
		VOC Nitrous Oxide	0.02 <0.01	0.04 <0.01
75	B1 Boiler (Boil 1)	PM <sub>10</sub> VOC CO	0.14 0.05 0.12	0.58 0.19 0.53

Emission *	Source	Air Contaminant	<u>Emissi</u>	on Rates
- Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
		NO <sub>x</sub> SO <sub>2</sub>	1.21 0.01	5.30 0.03
85	B1 Boiler (Boil 2)	$\begin{array}{c} PM_{10} \\ VOC \\ CO \\ NO_x \\ SO_2 \end{array}$	0.24 0.05 3.37 0.86 0.02	1.04 0.22 14.77 3.77 0.05
95	B1 Boiler (Boil 3)	$\begin{array}{c} PM_{10} \\ VOC \\ CO \\ NO_x \\ SO_2 \end{array}$	0.18 0.04 0.17 0.81 0.34	0.76 0.16 0.75 3.55 1.46
104	B1 Emergency Generat (Gen 1)	cor VOC CO NO $_{\rm X}$ PM $_{\rm 10}$ SO $_{\rm 2}$	0.06 0.25 0.99 0.10 <0.01	0.01 <<0.01 <<0.01 <<0.01 <<0.01
112	B1 Emergency Generat (Gen 2)	cor VOC $CO$ $NO_X$ $PM_{10}$ $SO_2$	0.05 0.20 0.77 0.08 <0.01	<0.01 <<0.01 <<0.01 <<0.01 <<0.01
116	Solvent MCV Room	Propylene Glycol  Monomethyl Etho  Acetate  Ethanolamine	er 0.01	0.03
	0.01	Isoproponal Hexamethyldisila	0.01 zane	0.05 0.23

Emission *	Source	Air Contaminant	<u>Emission</u>	<u>Rates</u>
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
		Tetramethyl Ammonium Hydrox	0.07 ide	0.01
	0.12	n-Methylpyrrolidi		1.13
0.12	2-(2-Butoxyethoxy Ethanol	3.84	0.41	
129	Cafeteria Boiler	$PM_{10}$ 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
133	Source Rebuild Exhaus	st Arsenic (as As <sub>2</sub> O <sub>3</sub> ) Phosphorus (as P <sub>2</sub> O		<0.01 <0.01
<<0.01	Antimony Trioxide Boron Trifluoride (as B <sub>2</sub> O <sub>3</sub> )	<<0.01 <	<0.01 <<0.01	
202	Houston Deviation Analysis Lab	Hydrochloric Acid Hydrofluoric Acid		0.03 <0.01 <0.01 <0.01 <0.01
203	Houston Deviation Analysis Lab			0.02 0.03 0.01 0.02 0.01

Emission	Source	Air Contaminant	<u>Emissi</u>	on Rates
<u>*</u> <u>Point No. (1)</u>	Name (2)	Name (3)	lb/hr	TPY
209	B2 Emergency Generat	or VOC	0.03	0.01
	(Gen 3)	CO	0.10	<<0.01
		NOx	0.40	<<0.01
		$PM_{10}$	0.04	<<0.01
		SO <sub>2</sub>	<0.01	<<0.01
211	B2 Boiler (Boil 5)	$PM_{10}$	0.01	0.03
		VOC	<0.01	0.01
		CO	0.01	0.05
		$NO_{x}$	0.05	0.21
		$SO_2$	<0.01	<0.01
219	B2 Boiler (Boil 6)	$PM_{10}$	0.07	0.29
		VOC	0.03	0.10
		CO	0.12	0.52
		$NO_{x}$	0.56	2.45
		SO <sub>2</sub>	<0.01	0.02
303	Welding Shop	Chromium	<<0.01	<0.01
	5 .	Cobalt	<<0.01	<0.01
		Manganese	<0.01	<0.01
		Nickel	<<0.01	<<0.01
		$PM_{10-U}$	<0.01	<0.01
316	Mod A Boiler (Boil 7	) PM <sub>10</sub>	0.04	0.14
		VOC	0.02	0.05
		CO	0.32	1.41
		$NO_{x}$	0.13	0.57
		SO <sub>2</sub>	<0.01	0.01
419	HF Treatment	Ammonia	2.00	9.00
		$PM_{10}$	0.28	0.50
		VOC	0.01	0.01
		CO	1.12	2.00

Emission *	Source	Air Contaminant	<u>Emissic</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		$NO_X$	2.79	5.00
		SO <sub>2</sub>	0.12	0.20

Emission	Source	Air Contaminant	<u>Emission</u>	Rates
<u>*</u> Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
428	Thermal Oxidizer 0.04	Hexamethyldisilaz	ane	0.04
0.	0.04	Propylene Glycol Monomethyl Ethe Acetate		1.73
		Isoproponal	3.80	5.36
		Perchloroethylene		0.79
		Ortho-Dichloroben		1.03
	0.79	01 2110 101 00 00	20110	1.03
	0.73	Pheno1	0.30	0.23
		Dihydro-2(3H)-Fur		0.09
	0.37	Dinyaro 2(311) Tar	anone	0.05
0.37	Diethylene Glycol Monobutyl Ether		0.34	
		Alkanolamine	0.02	0.07
	Dodecylbenzene Sulfonic Acid	0.59	0.46	
		Acetone	<0.01	<0.01
		Ethanol	<0.01	<0.01
		Methyl Siloxane Polymer	<0.01	0.01
		Ethanolamine	1.98	1.52
		n-Methyl-2- Pyrrolidinone	0.04	0.17
		2-(2 Butoxyethoxy Ethanol	0.38	1.65
		$PM_{10}$	0.09	0.36
		VOC	0.03	0.12
		CO	0.15	0.64
		NO <sub>x</sub>		23.66
		SO <sub>2</sub>	<0.01	0.02
431	Fuel Oil Tank	VOC	0.83	0.04
432	Spent Solvent Tank	Isopropyl Alcohol	0.06	0.10

Emission *	Source	Air Contaminant	<u>Emissi</u>	on Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		Propylene Glycol Monomethyl Ethe Acetate		0.02
439	Chlorine Room	Chlorine	0.02	<0.01
441	Site Utilities Fuel C 0.04	Oil Tank Fuel C	)il	0.83
442	Site Utilities Emerge Generator	ency VOC CO NO <sub>x</sub> SO <sub>2</sub>	0.42 11.67 0.02 <0.01	0.08 2.03 <0.01 <0.01
448	Diesel Fire Pump	$VOC$ $CO$ $NO_X$ $SO_2$ $PM_{10}$	0.96 2.54 11.73 0.78 0.84	0.03 0.08 0.37 0.03 0.03
452	Scrubber Yard	Acetic Acid Nitric Acid Ammonia Boron Trichloride (as B <sub>2</sub> O <sub>3</sub> ) Chlorine Ammonium Fluoride Cupric Sulfate Hexafluoroethane Tetrafluoroethane Trifluoromethane Hydrochloric Acid Hydrogen Bromide	0.05 <<0.01 <0.01 0.06 0.02 0.01 0.20	<0.01 <0.01 0.38 0.04  0.19 <<0.01 <0.01 0.27 0.06 0.05 0.85 1.39 0.03

Emission	Source	Air Contaminant	<u>Emissic</u>	on Rates
<u>*</u>		_		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
		_		_
		Tetramethyl	0.05	0.19
		Ammonium Hydrox	ide	
		Nitrogen Trifluor	ide	<0.01
	<0.01			
		Nitrous Oxide	0.03	0.11
		Peroxydisulfuric	Acid	<0.01
	0.01			
		Phosphoric Acid	<0.01	<0.01
		Phosphine (as P20	5)<0.01	<0.01
		Silicon Dioxide	0.04	0.16
		Sulfur Hexafluori	de0.06	0.23
		Sulfur Dioxide	<0.01	0.03
		Sulfuric Acid	<0.01	0.02
		Teraethyl	<0.01	0.02
		Ortho-Silicate		
		Arsenic (as As203	)<<0.01	<<0.01
		Diborane <	<0.01	<<0.01
		Tetrafluromethane	0.02	0.06

(1)	Emission point identification - either specific equipment designation
	or emission point number from plot
	·
(2)	plan.
(2)	Specific point source name. For
	fugitive sources use area name or
	fugitive source name.
(3) PM	- particulate matter
$PM_{10}$ - particulate matter less that	n 10 microns in diameter
VOC - volatile organic compounds	as defined in General Rule 101.1
NO <sub>x</sub> - total oxides of nitrogen	
$SO_2$ - sulfur dioxide	
CO - carbon monoxide	
co car son monoxitae	
* Fmission rates are based on an	d the facilities are limited by the
following maximum operating schedu	
To Trow mg maximum operating schedu	ile.
24 Hrs/day 7 Days/week _	52 Weeks/year or <u>8,760</u> Hrs/year
	Dated