#### Permit Number 34017

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	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
FT02000600	Sulfuric Tank	H <sub>2</sub> SO <sub>4</sub>	0.01	0.01
FT02003700	Sulfuric Tank	H <sub>2</sub> SO <sub>4</sub>	0.01	0.01
FU10500001		MCB/DCB HCl H₂SO4 0.06 Phosgene	0.12 0.31 0.13 0.01	0.53 1.38 0.01
FV11514600	Off-Gas Incinerator/Scrubbe	er VOC NO <sub>x</sub> CO HCI CI <sub>2</sub>	0.50 0.50 0.43 1.25 1.00	2.00 2.00 1.89 2.50 4.37
FV11514000	Caustic Fume Scrubber	VOC HCI Cl <sub>2</sub> 0.02	0.54 0.08 0.10	2.37 0.35
FV10510300	Lube Oil Reservoir Blower	VOC	0.03	0.01
FV10510700	Lube Oil Reservoir Blower	VOC	0.03	0.01
FL10531600	Solvent Truck Loading Rack Uncollected Fugitives	voc	0.04	0.01
FV11000422	Vac. Sep. TK O/F Seal Loop No. 2 Vent	o HCI	0.01	0.01
FV11011600	Hydrogen Vent Stack	$Cl_2$	0.01	0.01
FV11012101	HCI Fume Scrubber O/F Ve	nt HCl	0.01	0.01

Emission	Source	Air Contaminant	Contaminant <u>Emission Rates *</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
FV11014000	Waste Gas Vent Stack	HCI VOC	0.09 0.01	0.01 0.01
FV11014300	005 Tk Seal Pot O/F Vent	HCI	0.01	0.01
FV11014400	005 Tk Seal Pot O/F Vent	HCI	0.01	0.01
FT11014401	28% HCl Storage Tank Seal Pot - 005	HCI	0.01	0.01
FV11014500	006 Tk Seal Pot O/F Vent	HCI	0.01	0.01
FV11014600	006 Tk Seal Pot O/F Vent	HCI	0.01	0.01
FT11014601	36% HCl Storage Tank Seal Pot - 006	HCI	0.01	0.01
FT11015300	Waste Water Sump Tank	HCI	1.14	0.07
FV11500401	Waste Gas Hdr O/F Seal Loop Vent	HCI	0.01	0.01
FV11500412	Vac Sep TK O/F Seal Loop No. 2 Vent	HCI	0.01	0.01
FV11511300	Hydrogen Vent Stack	$Cl_2$	0.01	0.01
FT11513600	Deaerator	VOC	0.01	0.01
FV11514601	Inc Abs O/F Seal Loop Vents No. 1	HCI	0.01	0.01
FV11514602	Inc Abs O/F Seal Loop Vents No. 2	HCI	0.01	0.01
FV11514700	159 Tk Seal Pot O/F Vent	HCI	0.01	0.01
FV11514800 FT11514801	159 Tk Seal Pot O/F Vent 36% HCl Stg Tank Seal Pot-	HCI 159 HCI	0.01 0.01	0.01 0.01

Emission	Source A	Air Contaminant	Emission	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>	
FV11517900	Waste Gas Vent Stack	HCI	0.09	0.01	
		VOC	0.01	0.01	
FV12002011	Lube Oil Reservoir Vent Educt	or VOC	0.02	0.01	
FV12002022	Lube Oil Reservoir Vent Educt	or VOC	0.02	0.01	
FV12005900	Cl <sub>2</sub> Absorption Tower	$Cl_2$	0.01	0.01	
FG12009300	HCl Generator	NO <sub>x</sub>	22.33	3.35	
		CO	13.89	2.09	
		VOC	0.27	0.04	
		PM	0.91	0.14	
FV12013300	H <sub>2</sub> Vent Scrubber	HCI	0.01	0.01	
	(Start-Up and Shutdown)	$Cl_2$	0.01	0.01	
FT12014600	120 Sump Drain	HCI	1.10	0.06	
	Tanks No. 1 and No. 2				
FT12018000	Mainframe Lube Oil Reservoir	VOC	0.02	0.01	
FV12018100	High Pressure Hydrogen	$Cl_2$	0.01	0.01	
	Vent Stack	VOC	0.01	0.01	
FT12018700	Mainframe Lube Oil Storage T 0.01	ank	VOC	0.02	
FT12018800	Cylinder Lube Oil Storage Tan	k VOC	0.02	0.01	
FV12502022	Lube Oil Reservoir Vent Educt	or VOC	0.02	0.01	
FV12505900	Cl <sub>2</sub> Absorption Tower	Cl <sub>2</sub>	0.01	0.01	
FG12509300	HCl Generator	NO <sub>x</sub>	5.16	0.77	
		CO	0.90	0.14	
		VOC	0.15	0.02	
		PM	0.06	0.01	

#### AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	<u>TPY</u>
FV12514500	H₂ Vent Scrubber (Start-Up and Shutdown)	HCI Cl <sub>2</sub>	0.01 0.01	0.01 0.01
FT12514900	125 Sump Drain Tanks No. 1 and No. 2	HCI	1.10	0.06
FT83001600	Sulfuric Acid Tank	H <sub>2</sub> SO <sub>4</sub>	0.01	0.01
FC83300100	Cooling Tower	VOC	0.01	0.01
FV12005900	Cl <sub>2</sub> Absorption Tower-Start-U and Shutdown	Jp Cl <sub>2</sub>	0.01	0.01
FV12505900	Cl <sub>2</sub> Absorption Tower-Start-U and Shutdown	Jp Cl <sub>2</sub>	0.01	0.01

- (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
  - particulate matter, suspended in the atmosphere, including PM<sub>10</sub> PM
  - PM<sub>10</sub> 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.

NO<sub>x</sub> - total oxides of nitrogen

- carbon monoxide CO

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

DCB - dichlorobenzene

MCB - monochlorobenzene

Cl2 - chlorine

HCl - hydrogen chloride

H<sub>2</sub>SO<sub>4</sub> - sulfuric acid

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

	ISSION	Source	Air Contamin	anı <u>ı</u>	=mission i	Raies <u>*</u>	
Poi	nt No. (1)	Name (2)	Name (3)		b/hr	TPY	
*	Emission schedule:		and the facilities are limited by	the following	ı maximur	n operating	
	Hrs/day _	Days/week	_ Weeks/year or Hrs/year	8,760			
**	* Compliance with the annual limits shall be based on a 12-month rolling basis.						
				Dated	Decemb	er 16 2003	