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 <u>Emission Rates *</u>		Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**
FT02000600	Sulfuric Tank		H ₂ SO ₄	0.01	0.01
FT02003700	Sulfuric Tank		H ₂ SO ₄	0.01	0.01
FU10500001	HCI Complex Component Fugitives (4)	H₂SO Phos		0.12 0.33 0.13 0.01	0.54 1.48 0.01
FV11514600	Off-Gas Incinerator/Scrubb	er NO _x CO HCl Cl ₂	VOC 2.84 0.72 0.28 0.51	0.22 12.44 3.15 1.23 2.23	0.96
FV11621600	Off-Gas Incinerator/Scrubb	er NO _x CO HCI CI ₂	VOC 2.84 0.72 0.28 0.51	0.22 12.44 3.15 1.23 2.23	0.96
FV11514000	Caustic Fume Scrubber	Cl ₂	VOC HCI 0.02	0.54 3.83 0.10	2.37 10.01
FV10510300	Lube Oil Reservoir Blower		VOC	0.03	0.01
FV10510700	Lube Oil Reservoir Blower		VOC	0.03	0.01

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
FL10531600	Solvent Truck Loading Rack Uncollected Fugitives	VOC	0.04	0.01
FV11000422	Vac. Sep. TK O/F Seal Loop No. 2 Vent	HCI	0.01	0.01
FV11011600	Hydrogen Vent Stack	Cl ₂	0.01	0.01
FV11012101	HCI Fume Scrubber O/F Ven	t HCI	0.01	0.01
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 percent HCl Storage Tank 0.01 Pot - 005	Seal	HCI	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 percent HCl Storage Tank Seal Pot - 006	HCI	0.01	0.01
FT11015300	Waste Water Sump Tank	HCI	0.01	0.01
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

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
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
FV11621601	Inc Abs O/F Seal Loop Vents No. 1	HCI	0.01	0.01
FV11621602	Inc Abs O/F Seal Loop Vents No. 2	HCI	0.01	0.01
FV11522100	Waste Gas Blower Condensa Seal Loop Vent	te VOC HCI	0.01 0.01	0.01 0.01
FV11514700	159 Tk Seal Pot O/F Vent	HCI	0.01	0.01
FV11514800	159 Tk Seal Pot O/F Vent	HCI	0.01	0.01
FT11514801	36 percent HCl Stg Tank Sea Pot-159	l HCl	0.01	0.01
FV11500411	Waste Gas Vent Stack	HCI VOC	0.09 0.01	0.01 0.01
FV12002011	Lube Oil Reservoir Vent Educ	etor VOC	0.02	0.01
FV12002022	Lube Oil Reservoir Vent Educ	tor VOC	0.02	0.01
FV12005900	Cl ₂ Absorption Tower	Cl_2	0.01	0.01
FG12009300	HCl Generator	NO _x O 0.88	11.12 0.04	0.56

Emission	Source	Air Contaminant		Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**
		VOC PM	0.88 0.24	0.04 0.01	
FV12013300	H ₂ Vent Scrubber (Start-Up and Shutdown)		HCI Cl ₂	0.01 0.01	0.01 0.01
FT12014600	120 Sump Drain Tanks No. 1 and No. 2		HCI	1.10	0.06
FT12018000	Mainframe Lube Oil Reserv	voir	VOC	0.02	0.01
FV12018100	High-Pressure Hydrogen Vent Stack		Cl ₂ VOC	0.01 0.01	0.01 0.01
FT12018700	Mainframe Lube Oil Storag	e Tank	(VOC	0.02	0.01
FT12018800	Cylinder Lube Oil Storage	Tank	VOC	0.02	0.01
FV12502022	Lube Oil Reservoir Vent Ed	ductor	VOC	0.02	0.01
FV12505900	Cl ₂ Absorption Tower		Cl_2	0.01	0.01
FG12509300	HCI Generator	CO VOC PM	NO _x 0.88 0.88 0.24	11.12 0.04 0.04 0.01	0.56
FV12514500	H ₂ Vent Scrubber (Start-Up and Shutdown)		HCI Cl ₂	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 ₂ SO ₄	0.01	0.01
FC83000100	Cooling Tower		VOC	0.01	0.01

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant		Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**
FV12005900	Cl ₂ Absorption Tower - Start- and Shutdown	Up	Cl_2	0.01	0.01
FV12505900 and Shutdown	Cl ₂ Absorption Tower - Start-	Up	Cl ₂	0.01	0.01
FG11609300	-	00 00	NO _x 0.88 0.88 PM	11.12 0.04 0.04 0.24	0.56
FV11602000	Waste Gas Vent Stack	oc/	HCI 0.01	0.09 0.01	0.01
FV11601200	009 Tk Seal Pot O/F Vent		HCI	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

PM - particulate matter, suspended in the atmosphere, including PM₁₀

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_x - total oxides of nitrogen

CO - carbon monoxide SO₂ - sulfur dioxide

Cl₂ - chlorine

 PM_{10}

HCl - hydrogen chloride

H₂SO₄ - sulfuric acid

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	EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES
(4)	Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
*	Emission rates are based on and the facilities are limited by the following maximum operating schedule:
	8,760 hours/year
**	Compliance with the annual limits shall be based on a 12-month rolling basis.
	Dated <u>September 7, 2007</u>