

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 18926

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.

DATA			AIR CONTAMINANTS	
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
		lb/hr TPY		
V-1	Porch Rotary Vacuum Dryer	VOC	0.02	0.1
V-2	Process Area J Vent	VOC	3.75	0.29
V-3	Vacuum Pump	VOC	3.0	1.11
V-7	TEH Catholyte Tank	VOC	0.0001	0.004
		HCl + Cl ₂	0.015	0.07
V-9	HCl Scrubber	VOC	0.01	0.004
		HCl	0.0001	0.0004
		Cl ₂	0.0001	0.0004
V-10	Centrifuge	VOC	0.02	0.044
		HCl + Cl ₂	0.015	0.07
V-11	HCl Scrubber	VOC	0.001	0.004
		HCl	0.0001	0.004
		Cl ₂	0.0001	0.004
V-12	HAN Catholyte Tank	H ₂	0.03	0.10
		Hydroxylamine	0.01	0.05
V-13	HAN Anolyte Tank	O ₂	50	219
		HNO ₃	0.01	0.05
V-14	Hot Water Heater	PM	0.004	0.017
		VOC	0.01	0.042

Permit No. 18926
Page 2

NOx	0.088	0.386
SO2	0.001	0.002
CO	0.019	0.081

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source		Air Contaminant		<u>Emission Rates *</u>	
	Name (2)	Name (3)	lb/hr	TPY		
V-15	Hot Water Heater		PM		0.001	0.003
			VOC		0.001	0.006
			NOx		0.013	0.057
			SO2		<0.001	<0.001
			CO		0.003	0.012
V-16	Hot Water Heater		PM		0.004	0.017
			VOC		0.01	0.042
			NOx		0.088	0.386
			SO2		0.001	0.002
			CO		0.019	0.081
V-17	Hot Water Heater		PM		0.001	0.003
			VOC		0.001	0.006
			NOx		0.013	0.057
			SO2		<0.001	<0.001
			CO		0.003	0.012
V-18	Hot Water Heater		PM		0.003	0.012
			VOC		0.007	0.029
			NOx		0.060	0.262
			SO2		<0.001	0.002
			CO		0.013	0.055
V-19	Hot Water Heater		PM		0.004	0.017
			VOC		0.01	0.042
			NOx		0.088	0.386
			SO2		0.001	0.002
			CO		0.019	0.081
V-20	HMW Catholyte Tank		H2		0.9	3.5
V-21	HMW Anolyte Tank		O2		3.6	14.0
			VOC		0.1	0.05
BVE	Building E South Vent		VOC		0.003	0.007
			HCl + Cl2		0.015	0.07
BVF1	Building F West Vent		VOC		0.12	0.025

Permit No. 18926
Page 4

BVF2	Building F South Vent	VOC	0.12	0.025
------	-----------------------	-----	------	-------

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source		Air Contaminant		Emission Rates *	
	Name (2)	Name (3)	lb/hr	TPY		
V-30	Fugitives (4)		VOC		0.14	0.022
			HCl + Cl ₂		0.02	0.1
VC-1, VC-2, VC-3 & VC-4	Building C Vents		VOC		0.089	<0.013
V-22	Future Pilot Plant Anolyte Tank		O ₂		3.6	14.0
V-23	Future Pilot Plant Catholyte Tank		H ₂		0.9	3.5
V-24	Future Pilot Plant Vent		VOC		0.2	0.1

(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) PM - particulate matter
VOC - volatile organic compounds as defined in General Rule 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
HCl - hydrogen chloride
Cl₂ - chlorine
H₂ - hydrogen
O₂ - oxygen

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

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day___Days/week___Weeks/year___or Hrs/year 8,760

Permit No. 18926
Page 6

Dated _____