EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 1743

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.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
51	Absorber Vent	VOC	5723.0	572.3
		HCN	1.0	0.1
		CO	4781.0	478.1
		NOx	120.0	12.0
51A	Catalytic Incinerators (5)	VOC	1421.5	6226.2
		HCN	0.1	0.4
		CO	1500.0	6750.0
		NOx	230.0	1007.4
ACR-TOX51	Thermal Oxidizer Oxidizer Unit (6)	NOx	130.09	499.32
		CO	60.8	267.0
		HCN	<0.01	<0.01
		VOC	7.53	34.82
		ACRN	0.03	1.97
		ACE	0.04	0.15
56	Start-up Heater	VOC	0.25	0.03
		PM10	0.21	0.02
		CO	2.9	0.31
		SOx	0.05	0.01
		NOx	11.7	1.2
57	Isbl Flare	VOC	0.65	2.61
		HCN	1.31	5.74
		SOx	4.0	17.52
		NOx	0.11	0.46
		CO	0.02	0.09

PM10	0.01	0.11

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
58	Osbl Flare	HCN	0.01	0.05
		SOx	0.04	0.18
		VOC	0.01	0.03
		NOx	0.11	0.46
		CO	0.02	0.09
		PM10	0.01	0.01
59	Crude Ace Tank Scrubber	VOC	<0.01	<0.01
		HCN	<0.01	<0.01
61	Finished Product Scrubber	VOC	0.05	0.09
127	HCN Tank Fugitives (4)	HCN	0.14	0.62
156	ACRN Analysis Scrubber	VOC	0.05	0.05
159	Crude/Off Absorber	VOC	0.08	0.01
		HCN	0.02	0.01
206	H2SO4 Tank	H2SO4	<0.01	<0.01
216	H2O/ACRN Tank	VOC	<0.01	<0.01
217	Clarifier Tank	VOC	<0.01	0.01
		HCN	<0.01	0.01
218	ACE Product Scrubber	VOC	0.01	<0.01
219	Hydroquinone Tank	VOC	1.09	1.64
220	Me Hydroquinone Tank	VOC	0.77	0.22
221	Acetic Acid Tank	VOC	0.01	0.03
222	Ethylene Diamine Tank	VOC	<0.01	0.01
231	Isbl Fugitives (4)	VOC	1.69	7.39
		HCN	0.27	1.19

223	Isbl Brine Tank	VOC	<0.01	<0.01
232	Filtrate Tank	VOC	<0.01	<0.01

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
280	HCN Brine Tank	VOC	<0.01	<0.01
311	Dock Scrubber	VOC	0.09	0.39
321	ACRN Crude/Off Test Fugitives (4)	VOC	0.09	0.38
322	ACRN Storage Tank Fugitives (4)	VOC	0.06	0.27
323	ACRN Storage Tank Fugitives (4)	VOC	0.06	0.27
325	Waste Organic Tank Fugitives (4)	VOC HCN	0.07 <0.01	0.3 0.01
326	Hydroquinone Acrn Tank Fugitives (4)	VOC	0.11	0.47
327	MEHQ Tank Fugitives (4)	VOC	0.06	0.27
328	Acetic Acid Tank Fugitives (4)	VOC	0.09	0.37
329	Ed Tank Fugitives (4)	VOC	0.05	0.21
330	Brine Tank Fugitives (4)	VOC	0.1	0.44
331	SLOP H2O Tank Fugitives (4)	VOC	0.08	0.34
334	Clarifier Tank Fugitives (4)	VOC HCN	<0.01 <0.01	<0.01 <0.01
375	Wastewater Tank	VOC HCN	<0.01 <0.01	0.01 0.02
376-1,2	Settling Chamber	VOC HCN	2.3 0.01	10.10 0.04

380	Rx Catalyst Makeup	PM	<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 General Rule 101.1
NOx - total oxides of nitrogen
SOx - total oxides of sulfur
PM - particulate matter
PM10 - particulate matter less than 10 microns
CO - carbon monoxide
HCN - hydrogen cyanide
HCl - hydrogen chloride
ACRN - acrylonitrile
ACE - acetonitrile.
(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
(5) Prior to the installation of the Thermal Oxidizer Unit which will occur on or before July 1, 1993.
(6) After installation of Thermal Oxidizer Unit.

* 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___

Dated _____