

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		Air Contaminant		<u>Emission Rates *</u>	
	Name (2)	Name (3)	lb/hr	TPY		
ACR-TOU51	Thermal Oxidizer Unit			NO _x	130.1	499.0
				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
ACR-VNT51	Absorber Vent			VOC	5723.0	572.3
				HCN	1.0	0.1
				CO	4781.0	478.1
				NO _x	120.0	12.0
ACR-HTR56	Start-up Heater			VOC	0.25	0.03
				PM ₁₀	0.21	0.02
				CO	2.9	0.31
				SO _x	0.05	0.01
				NO _x	11.7	1.2
ACR-FLR57	ISBL Flare			VOC	0.65	2.61
				HCN	1.31	5.74
				SO _x	4.0	17.52
				NO _x	0.11	0.46
				CO	0.02	0.09
				PM ₁₀	0.01	0.11
ACR-FLR58	OSBL Flare			HCN	0.01	0.08
				SO _x	0.04	0.18
				VOC	0.01	0.04
				NO _x	0.11	0.55
				CO	0.02	0.12
				PM ₁₀	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
ACR-ABS59	Crude Ace Tank Scrubber	VOC	<0.01	<0.01
		HCN	<0.01	<0.01
ACR-ABS61	Finished Product Scrubber	VOC	0.05	0.09

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			lb/hr	TPY
ACR-FUG127	HCN Tank Fugitives (4)	HCN	0.14	0.62
ACR-ABS156	ACRN Analysis Scrubber	VOC	0.05	0.05
ACR-ABS159	Crude/Off Scrubber	VOC	0.08	0.01
		HCN	0.01	0.01
ACR-ABS219	HQ & MEHQ Tank Scrubber (6)	VOC	0.02	0.05
ACR-TFX206A	H ₂ SO ₄ Tank	H ₂ SO ₄	<0.01	<0.01
ACR-TFX206B	H ₂ SO ₄ Tank	H ₂ SO ₄	<0.01	<0.01
ACR-TFX216	H ₂ O/ACRN Tank	VOC	<0.01	<0.01
ACR-TFX217	Clarifier Tank	VOC	<0.01	0.01
		HCN	<0.01	0.01
ACR-ABS218	Ace Product Scrubber	VOC	0.01	<0.01
ACR-TFX219	Hydroquinone Tank (5)	VOC	1.09	1.64
ACR-TFX220	Methyl Hydroquinone Tank(5)	VOC	0.77	0.22
ACR-TFX221	Acetic Acid Tank	VOC	0.01	0.04
ACR-TFX222	Ethylene Diamine Tank	VOC	<0.01	0.01
ACR-FLG231	ISBL Fugitives (4)	VOC	1.69	7.39
		HCN	0.27	1.19
ACR-TFX223	ISBL Brine Tank	VOC	<0.01	<0.01
ACR-TFX232	RCRA Filtrate Tank	VOC	0.01	0.04

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			lb/hr	TPY
ACR-TFX280	HCN Brine Tank	VOC	<0.01	<0.01
ACR-ABS311	Dock Scrubber	VOC	0.09	0.39

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>			
			lb/hr	TPY		
ACR-FUG321	ACRN Crude/Off Test Fugitives (4)			VOC	0.09	0.38
ACR-FUG322	ACRN Storage Tank Fugitives (4)			VOC	0.06	0.27
ACR-FUG323	ACRN Storage Tank Fugitives (4)			VOC	0.06	0.27
ACR-FUG325	Waste Organic Tank Fugitives (4)			VOC	0.07	0.3
				HCN	<0.01	0.01
ACR-FUG326	Hydroquinone ACRN Tank Fugitives (4)			VOC	0.11	0.47
ACR-FUG327	MEHQ Tank Fugitives (4)			VOC	0.06	0.27
ACR-FUG328	Acetic Acid Tank Fugitives (4)			VOC	0.09	0.37
ACR-FUG329	Ed Tank Fugitives (4)			VOC	0.05	0.21
ACR-FUG330	Brine Tank Fugitives (4)			VOC	0.1	0.44
ACR-FUG331	Recycle H ₂ O Tank Fugitives (4)			VOC	0.08	0.34
ACR-FUG334	Clarifier Tank Fugitives (4)			VOC	<0.01	<0.01
				HCN	<0.01	0.01
ACR-TFX375	Waste Water Tank			VOC	0.01	0.04
				HCN	0.04	0.15
WWC376-1,2	Settling Chamber			VOC	2.3	10.10
				HCN	0.01	0.04

BIN380

R_x Catalyst Makeup

PM

<0.01

<0.01

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- (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) H_2SO_4 - hydrogen sulfide
PM - particulate matter
PM₁₀ - particulate matter less than 10 microns
VOC - volatile organic compounds as defined in General Rule 101.1
NO_x - total oxides of nitrogen
SO_x - total oxides of sulfur
CO - carbon monoxide
HCN - hydrocarbon cyanide
HCl - hydrogen chloride
ACRN - acrylonitrile
ACE - acetonitrile
HQ - hydroquinone
MEHQ - methyl hydroquinone
ED - ethylene diamine
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Until ACR-ABS219 is operational but not later than July 1, 1995
- (6) After ACR-ABS219 is operational but not later than July 1, 1995

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

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year 8,760

Dated _____