### 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 *	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
ACR-TOU51	Thermal Oxidizer Unit	NO <sub>x</sub> CO HCN VOC ACRN ACE	130.1 60.8 <0.01 7.53 0.03 0.04	499.0 267.0 <0.01 34.82 1.97 0.15
ACR-VNT51	Absorber Vent	HCN	1.0 1.0 1,781.0 120.0	572.3 0.1 478.1 12.0
ACR-INC60	Incinerator Stack	HCN ACE ACRN VOC PM CO SO <sub>x</sub> NO <sub>x</sub>	4.90 0.56 0.01 1.03 2.50 6.24 0.11 846.07	0.21 1.75 0.04 0.71 1.71 4.28 0.07 318.70
ACR-HTR56	Start-up Heater	$VOC$ $PM_{10}$ $CO$ $SO_{X}$ $NO_{X}$	0.25 0.21 2.9 0.05 11.7	0.03 0.02 0.31 0.01 1.2
ACR-FLR57	ISBL Flare	VOC HCN SO <sub>X</sub>	0.65 1.31 4.0	2.61 5.74 17.52

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## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
ACR-FLR58	OSBL Flare	$NO_X$ $CO$ $PM_{10}$ $HCN$ $SO_X$ $VOC$ $NO_X$ $CO$ $PM_{10}$	0.11 0.02 0.01 0.01 0.04 0.01 0.11 0.02 0.01	0.46 0.09 0.11 0.08 0.18 0.04 0.55 0.12 0.01
ACR-ABS59	Crude ACE Tank Scrubber	VOC ACE	<0.01 <0.01 <0.01	<0.01 <0.01 <0.01
ACR-ABS61	Finished Product Scrubbe	er VOC	0.05	0.09
ACR-FUG127	HCN Tank Fugitives (4)	HCN	0.14	0.62
ACR-ABS156	ACRN Analysis Tanks Scrubber 0.05		VOC	0.05
ACR-ABS159 Crude/Off-test Tank 0.01		ıbber	VOC	0.08
	0.01	HCN	0.01	0.01
ACR-ABS219	HQ & MEHQ Tank Scrubber	VOC	0.02	0.05
ACR-TFX206A	H₂SO₄ Tank	$H_2SO_4$	<0.01	<0.01
ACR-TFX206B	H₂SO₄ Tank	H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
ACR-TFX216	H <sub>2</sub> O/ACRN Tank	VOC	<0.01	<0.01
ACR-TFX217	Clarifier Tank	VOC HCN	<0.01 <0.01	0.01 0.01
ACR-ABS218	ACE Product Tank Scrubbe	er ACE	0.01	<0.01

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# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
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 HCN	1.69 0.27	7.39 1.19
ACR-TFX223	ISBL Brine Tank	VOC	<0.01	<0.01
ACR-TFX232	RCRA Filtrate Tank	VOC	0.01	0.04
ACR-TFX280	HCN Brine Tank	VOC	<0.01	<0.01
ACR-ABS311	Dock Scrubber	VOC	0.09	0.39
ACR-FUG321	ACRN Crude/Off Test Fugi 0.38	tives (4)	VOC	0.09
ACR-FUG322	ACRN Storage Tank Fugiti 0.27	ves (4)	VOC	0.06
ACR-FUG323	ACRN Storage Tank Fugiti 0.27	ves (4)	VOC	0.06
ACR-FUG325	Waste Organic Tank Fugit	ives (4)	VOC	0.07
0.5	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 Fugitiv 0.37	es (4)	VOC	0.09

### EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

#### AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	<u>Emission</u>	Rates
*				
Point No. (1)	Name (2)	Name (3)	<u> 1b/hr</u>	<u>TPY</u>
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 H₂O Tank Fugitiv 0.34	/es (4)	VOC	0.08
ACR-FUG334	Clarifier Tank Fugitives	s (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 <sub>X</sub> Catalyst Makeup	PM	<0.01	<0.01

<sup>(1)</sup> Emission point identification - either specific equipment designation or emission point number from plot plan.

 $NO_X$  - total oxides of nitrogen

SO<sub>x</sub> - total oxides of sulfur

CO - carbon monoxide

<sup>(2)</sup> Specific point source name. For fugitive sources use area name or fugitive source name.

<sup>(3)</sup>  $H_2SO_4$  - sulfuric acid

 $<sup>\</sup>mbox{PM}$  - particulate matter, suspended in the atmosphere, including  $\mbox{PM}_{10}.$ 

 $PM_{10}$  - 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.

VOC - volatile organic compounds as defined in General Rule 101.1

### EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

## AIR CONTAMINANTS DATA

Dated \_\_\_\_

Emission <u>*</u>	Source	Air Contaminant	<u>Emission Rates</u>
Point No. (1	<u>) Name (2)</u>	Name (3)	<u>lb/hr TPY</u>
ACRN - ACE - HQ - MEHQ - ED - (4) Fugitive as a ma	hydrogen cyanide acrylonitrile acetonitrile hydroquinone methyl hydroquinone ethylene diamine emissions are an estimate aximum allowable emission rat	e.	
	ng maximum operating schedul		Timiteed by the
	24 Days/week7		or Hrs/year