

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 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
ACR-TOU51	Thermal Oxidizer Unit	NO <sub>x</sub>	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	5,723.0	572.3
		HCN	1.0	0.1
		CO	4,781.0	478.1
		NO <sub>x</sub>	120.0	12.0
ACR-INC60	Incinerator Stack	HCN	4.90	0.21
		ACE	0.56	1.75
		ACRN	0.01	0.04
		VOC	1.03	0.71
		PM	2.50	1.71
		CO	6.24	4.28
		SO <sub>x</sub>	0.11	0.07
		NO <sub>x</sub>	220.00	83.80
ACR-HTR56	Start-Up Heater	VOC	0.25	0.03
		PM <sub>10</sub>	0.21	0.02
		CO	2.9	0.31
		SO <sub>x</sub>	0.05	0.01
		NO <sub>x</sub>	11.7	1.2
ACR-FLR57	ISBL Flare	VOC	0.65	2.61
		HCN	1.31	5.74
		SO <sub>x</sub>	4.0	17.52
		NO <sub>x</sub>	0.11	0.46
		CO	0.02	0.09
		PM <sub>10</sub>	0.01	0.11

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			lb/hr	TPY
ACR-FLR58	OSBL Flare	HCN	0.01	0.08
		SO <sub>x</sub>	0.04	0.18
		VOC	0.01	0.04
		NO <sub>x</sub>	0.11	0.55
		CO	0.02	0.12
		PM <sub>10</sub>	0.01	0.01
ACR-ABS59	Crude ACE Tank Scrubber	ACE	0.10	<0.01
		ACRN	<0.01	<0.01
		HCN 0.09	<0.01	
ACR-ABS61	Finished Product Scrubber	ACRN	3.76	2.54
ACR-ABS156	ACRN Analysis Tanks Scrubber	ACE	0.92	0.05
		ACRN 1.50	1.33	
ACR-ABS159	Crude/Off-test Tank Scrubber	ACRN	3.33	0.84
		HCN	3.16	0.79
ACR-ABS218	Acetonitrile Product Scrubber	ACE	1.22	0.10
ACR-ABS219	HQ and MEHQ Tank Scrubber	ACRN	0.18	0.03
		HQ <0.01	<0.01	
		P-methoxyphenol	<0.01	<0.01
ACR-TFX206A	H <sub>2</sub> SO <sub>4</sub> Tank	H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
ACR-TFX206B	H <sub>2</sub> SO <sub>4</sub> 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	<0.01	0.01
		HCN	<0.01	0.01
ACR-TFX221	Acetic Acid Tank	VOC	0.01	0.04
ACR-TFX222	Ethylene Diamine Tank	VOC	<0.01	0.01

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ACR-TFX223	ISBL Brine Tank	VOC	<0.01	<0.01
ACR-TFX232	RCRA Filtrate Tank	ACRN	<0.01	<0.01
		ACE <0.01	<0.01	
ACR-TFX280	HCN Brine Tank	VOC	<0.01	<0.01
ACR-ABS311	Dock Scrubber	VOC	0.09	0.39
ACR-FIRRLU	No. 1 Tank Car Spot Fugitive Area (4)		ACE	0.01
		0.06		
		ACRN 0.02	0.06	
ACR-F2RRLU	No. 2 Tank Car Spot Fugitive Area (4)		HCN	<0.01
		0.03		
ACR-F3RRLU	No. 3 Tank Car Spot Fugitive Area (4)		ACE	0.02
		0.10		
		ACRN 0.03	0.14	
ACR-FC3TF	Propylene Tank Farm Fugitive Area (4)	VOC	0.69	3.00
ACR-FDK3B	Propylene Barge Spot Fugitive Area (4)	VOC	0.06	0.26
ACR-FDKPBL	Dock Process Battery Limit Limit Fugitive Area (4)	ACRN	0.03	0.11
ACR-FDKSCR	Dock Scrubber Fugitive Area (4)	ACRN	0.03	0.12
ACR-FFLARE	ISBL Flare Fugitive Area (4)	ACRN	<0.01	<0.01
ACR-FPUR	Purification Fugitive Area (4)	Acetic Acid	0.02	0.07
		ACE 0.06	0.25	
		ACRN 0.64	2.78	
		HCN 0.27	1.17	
		HQ <0.01	0.03	
		methanol	<0.01	0.02
		MEHQ	<0.01	0.02

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ACR-FPURTK	Purification Tank Fugitive Area (4)	VOC	<0.01	
		Acetic Acid	0.06	0.25
		ACE	0.05	0.22
		ACRN	<0.01	
		HCN	<0.01	0.01
ACR-FRCVY	Recovery Fugitive Area (4)	ACRN	0.07	0.29
		HCN	0.01	0.06
		HQ	<0.01	
		methanol	<0.01	0.01
		VOC	0.26	1.15
ACR-FREFRG	Refrigeration Fugitive Area (4)	methanol	<0.01	0.02
ACR-FRRHCN	HCN Tank Car Fugitive Area (4)	HCN	0.01	0.06
ACR-FRX	Reactor Fugitive Area (4)	ACRN	0.05	0.23
		HCN	0.01	0.05
		methanol	0.07	0.32
		ammonia	<0.01	0.02
		VOC	0.10	0.46
ACR-FSITE	Site Fugitive Area (4)	ACE	<0.01	0.02
		ACRN	<0.01	0.01
		methanol	<0.01	<0.01
		VOC	0.08	0.33
ACR-FUG27	HCN Storage Tank (4)	HCN	0.07	0.29
		methanol	<0.01	0.02
ACR-FUG60	Incinerator Fugitive Area (4)	ACE	<0.01	<0.01
		ACRN	<0.01	<0.01
		HCN	0.03	0.12
ACR-FUG321	Crude and Off-Test	ACRN	0.06	0.25

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	Fugitive Area (4)	HCN	0.03	0.13
ACR-FUG322	Product Tank Fugitive Area (4)	ACRN	0.07	0.30
ACR-FUG323	Analysis Tank Fugitive Area (4)	ACE	<0.01	0.02
		ACRN 0.09	0.41	
		MEHQ	<0.01	<0.01
ACRTFX375	One Million Gallon Wastewater Tank	ACRN	<0.01	<0.01
		ACE <0.01	<0.01	
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

- (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) NO<sub>x</sub> - total oxides of nitrogen  
CO - carbon monoxide  
HCN - hydrogen cyanide  
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code Section 101.1  
ACRN - acrylonitrile  
ACE - acetonitrile  
H<sub>2</sub>SO<sub>4</sub> - sulfuric acid  
PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>.  
PM<sub>10</sub> - 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.  
SO<sub>x</sub> - total oxides of sulfur  
HQ - hydroquinone  
MEHQ - p-methoxyphenol
- (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 24 Days/week 7 Weeks/year 52 or Hrs/year 8,760

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			lb/hr	TPY

Dated January 18, 2002