

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. **(8/08)**

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
ACR-TOU51	Thermal Oxidizer Discharge	VOC	7.82	33.32
		ACRN	0.28	0.70
		HCN	0.20	0.46
		CO	66.07	36.37
		NO _x	134.04	369.74
		SO ₂	3.06	13.39
		PM	0.73	3.20
		Ammonia	0.01	0.01
ACR-VC51	Vapor Combustor	VOC	74.96	9.08
		ACRN	2.82	0.20
		HCN	4.00	0.26
		CO	210.52	20.75
		NO _x	847.37	60.11
		SO ₂	3.06	0.39
		Ammonia	0.90	0.04
ACR-VNT51	Reactors Start-Up	NO _x	44.40	0.89
		Ammonia	0.60	0.01
ACR-INC60	Incinerator Stack	VOC	10.14	3.57
		ACRN	1.31	0.13
		HCN	8.00	1.25
		PM	1.63	1.03
		CO	25.00	12.20
		SO ₂	10.03	6.32
		NO _x	372.40	126.90
		Ammonia	0.11	0.34

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			lb/hr	TPY**
ACR-HTR56	Start-Up Heater	VOC	0.39	0.03
		PM ₁₀	0.54	0.05
		CO	5.98	0.50
		SO ₂	0.04	0.01
		NO _x	7.12	0.60
ACR-FLR57	ISBL Flare	VOC	17.43	20.17
		HCN	11.13	17.21
		ACRN	4.97	2.47
		SO ₂	10.00	17.52
		NO _x	32.30	40.98
		CO	4.51	4.22
ACR-FLR58	OSBL Flare	VOC	1.74	4.42
		HCN	1.73	4.38
		SO ₂	0.01	0.01
		NO _x	3.86	10.10
		CO	0.54	2.04
ACR-CLT229	Cooling Tower	VOC	1.97	8.65
ACR-ABS59	Crude ACE Tank Scrubber	VOC	0.04	0.03
		HCN	0.02	0.01
		ACRN	0.01	0.01
		ACE	0.01	0.01
ACR-ABS61	Finished Product Scrubber	ACRN	4.01	2.63
ACR-ABS156	ACRN Analysis Scrubber	VOC	1.41	0.81
		ACRN	0.64	0.76
ACR-ABS159	Crude/Off-Test Scrubber	ACRN	0.69	0.10
		HCN	0.75	0.14
ACR-ABS218	Acetonitrile Product Scrubber	VOC	0.05	0.11

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ACR-ABS219	HQ and MEHQ Tank Scrubber	VOC	1.50	0.04
		ACRN	1.48	0.03
ACR-TF206A	H ₂ SO ₄ Tank	H ₂ SO ₄	0.01	0.01
ACR-TF206B	H ₂ SO ₄ Tank	H ₂ SO ₄	0.01	0.01
ACR-TFX207	H ₂ SO ₄ Tank	H ₂ SO ₄	0.01	0.01
ACR-TFX223	ISBL Brine Tank	VOC	0.05	0.01
ACR-TFX232	RCRA Filtrate Tank	VOC	0.15	0.05
		ACRN	0.11	0.04
ACR-TFX280	West HCN Brine Tank	VOC	0.01	0.01
ACR-TFX281	East HCN Brine Tank	VOC	0.01	0.01
ACR-ABS311	Dock Scrubber	ACRN	6.20	0.96
ACR-LDFG	Loading Fugitives (4)	VOC	0.02	0.02
		ACRN	0.01	0.01
ACR-PROCFUG	Process Area Fugitives (4)	VOC	1.87	8.14
		ACRN	0.78	3.44
		HCN	0.30	1.32
		Ammonia	0.01	0.03
ACR-OSBLFUG	OSBL Area Fugitives (4)	VOC	1.16	5.03
		ACRN	0.21	0.93
		HCN	0.05	0.20
ACR-TFX375	One Million Gallon Wastewater Tank	VOC	0.15	0.08
		ACRN	0.11	0.06

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ACR-WWC376	RCRA WW West Settler	VOC	0.03	0.03
		ACRN	0.01	0.01
		HCN	0.01	0.01
ACR-WWC377	RCRA WW East Settler	VOC	0.03	0.03
		ACRN	0.01	0.01
		HCN	0.01	0.01
ACR-BIN380	R _x Catalyst Makeup	PM	0.01	0.06
ACR-BIN381	R _x Catalyst Makeup	PM	0.01	0.01
ACR-SMPCS	Sump Tank	VOC	0.57	0.43
		ACRN	0.21	0.16
		HCN	0.23	0.17
ACRDEGR	Degreaser	VOC	0.1	0.06

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) NO_x - total oxides of nitrogen
CO - carbon monoxide
HCN - hydrogen cyanide
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101. VOC is inclusive of all compounds as per definition and is the total of all VOC's.
ACRN - acrylonitrile
H₂SO₄ - sulfuric acid
PM - particulate matter, suspended in the atmosphere, including PM₁₀.
PM₁₀ - particulate matter (PM) 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.
SO₂ - total oxides of sulfur

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(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:

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

** Compliance with annual emission limits is based on a rolling 12-month period.

2008

Dated August 15,