

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 3173

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**
A1333	HIPA Flare (5)	Acetone	0.15	0.66
		CO 12.90	44.16	
		NO _x 2.13	6.9	
		VOC 8.96	36.71	
A5400	Analyzer Vent A5400	VOC	<0.01	<0.01
A5506	Analyzer Vent A5506	VOC	<0.01	<0.01
A5507	Analyzer Vent A5507	VOC	<0.01	<0.01
A5508	Analyzer Vent A5508	VOC	<0.01	<0.01
BEETLE	BEETLE Stack	H ₂ SO ₄	0.12	0.53
		SO ₂ 1.84	8.06	
		VOC 5.64	24.70	
CWT1D	Cooling Tower 1D (5)	VOC	1.01	4.42
CWT1E	Cooling Tower 1E (5)	VOC	1.51	6.62
F337	Tank F-337 (after seal upgrade) (before seal upgrade)	VOC	0.62	0.55
		VOC	0.63	0.58
F353	Tank F-353	VOC	0.57	0.42
FTRUCK	Loading Fugitives (4, 5)	VOC	3.31	1.11
IPACRUFEE	IPA Crude Fugitives (4)	Acetone	0.12	0.55
		H ₂ SO ₄ 0.10	0.43	
		VOC 0.53	2.33	

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
IPAFINFE	IPA Finishing Fugitives (4)	Acetone	0.20	0.90
		VOC	0.57	2.48
SCRWRTT/SCRWRTC		Tank Truck and Car/West Rack (5)	3.97	1.33
T-66-R1	Tank T-66-R1	VOC	0.13	0.42
T101B	Tank T-101B	H ₂ SO ₄	<0.01	<0.01
		VOC	0.12	0.03
T104	Tank T-104	NaOH	<0.01	<0.01
T114A	Tank T-114A	H ₂ SO ₄	<0.01	<0.01
		VOC	0.13	0.06
T116A	Tank T-116A	H ₂ SO ₄	<0.01	<0.01
		VOC	0.12	0.06
T188	Tank T-188	VOC	0.46	0.89
T216	Tank T-216	VOC	0.49	0.90
T3030	Tank T-3030	VOC	0.07	0.01
T3141	Tank T-3141	Acetone	0.03	0.05
		VOC	0.22	0.33
T3176	Tank T-3176	VOC	0.07	0.01
T3405	Tank T-3405 (after seal upgrade)	VOC	1.02	0.65
	(before seal upgrade)	VOC	1.04	0.68
T340D	Tank T-340D	H ₂ SO ₄	<0.01	<0.01
		VOC	0.08	0.03

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
T359	Tank T-359	NaOH	<0.01	<0.01
		VOC 0.73	0.03	
T360	Tank T-360	H ₂ SO ₄	<0.01	<0.01
		VOC 0.08	0.02	
T67A	Tank T-67A	VOC	0.27	0.42
T67B	Tank T-67B (after seal upgrade)	Acetone	0.03	0.05
		VOC 0.24	0.41	
	(before seal upgrade)	Acetone	0.03	0.05
		VOC 0.25	0.42	
T68	Tank T-68	VOC	0.25	0.57
T69C	Tank T-69C	Acetone	6.05	0.27
		VOC 2.83	0.11	
T73C	Tank T-73C	Acetone	6.05	0.27
		VOC 2.83	0.11	
T74A	Tank T-74A (after seal upgrade)	Acetone	0.03	0.06
		VOC 0.24	0.48	
	(before seal upgrade)	Acetone	0.03	0.06
		VOC 0.25	0.49	
T75A	Tank T-75A (after seal upgrade)	VOC	0.39	0.92
	(before seal upgrade)	VOC	0.41	0.96
T75B	Tank T-75B (after seal upgrade)	VOC	0.39	0.92
	(before seal upgrade)	VOC	0.41	0.96
T76B	Tank T-76B (after seal upgrade)	VOC	0.4	1.17
	(before seal upgrade)	VOC	0.42	1.21

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
T82B	Tank T-82B	H ₂ SO ₄	<0.01	<0.01
T87	Tank T-87	NaOH VOC 1.07	<0.01 0.29	<0.01
T90	Tank T-90	Acetone VOC 0.21	0.03 0.31	0.04
T91	Tank T-91	Acetone VOC 0.22	0.03 0.39	0.05
T95	Tank T-95	VOC	0.30	0.43
T96	Tank T-96	NaOH	<0.01	<0.01
T97	Tank T-97	Acetone VOC 0.13	0.02 0.31	0.04
V392	Scrubber V-392	Acetone VOC <0.01	0.56 0.01	2.44
V118	Vent V-118	VOC	0.52	2.28
V20	Tank V-20	Acetone VOC <0.01	<0.01 0.02	0.05
V3162	Vent V-3162	VOC	4.61	0.08
WRTC	West Rack Tank Car Loading (5)	H ₂ SO ₄	0.07	0.01

- (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) VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 CO - carbon monoxide
 H₂SO₄ - sulfuric acid
 NaOH - sodium hydroxide

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Emissions represent contributions from the IPA Unit only.

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

_____ Hrs/day __ Days/week __ Weeks/year or 8,760 Hrs/year

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

Dated June 26, 2001