

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 9481

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**
116CT	Cooling Tower	VOC	0.74	3.20
116F	Refrigeration Fugitives (4)	VOC	6.58	28.79
230F	Process Fugitives (4)	VOC	12.99	55.93
		PM 0.03	0.11	
		HF <0.01	<0.01	
		Nickel Octoate	<0.01	<0.01
		Modifier "T"	0.02	0.10
230T-F105A	Oil Tank	VOC	0.90	0.16
230T-F105B	Oil Tank	VOC	0.90	0.16
230T-F200	Catalyst Tank	VOC	24.31	0.30
230T-F201	Catalyst Tank	VOC	14.96	0.22
230T-F205	Catalyst Tank	VOC	14.95	0.22
230T-F222	Catalyst Tank	VOC	2.87	0.08
230V-E405	Crumb Tank Vent Condenser	VOC	0.07	0.02
230WF	Wastewater Fugitives (4)	VOC	4.70	1.52
236F	840 Unit Finishing Process	VOC	156.0	267.80
4H-228	Modifier "T" Makeup Tank	VOC	3.66	0.05

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			lb/hr	TPY**
230T-F311	Nitrax Makeup Tank	PM	<0.01	<0.01
230T-F408	Tamol Makeup Tank	PM	1.20	<0.01
230T-F411	Phosphoric Acid Storage Tank	PM	3.80	0.04
280F	Process Fugitives (4)	VOC	11.71	51.32
280FLQ504	Flare (5)	VOC	38.63	18.97
		NO _x	2.43	1.37
		CO	12.27	6.43
		SO ₂	<0.01	
280FLQ504	Flare (6)	VOC	27.77	13.55
		NO _x	2.19	1.44
		CO	11.15	7.33
		SO ₂	<0.01	
280T-F115	Angelax Storage Tank	VOC	0.14	0.08
280T-F201	Catalyst Tank	VOC	18.17	0.10
280T-F206	Catalyst Tank	VOC	3.93	0.62
280T-F216	Catalyst Tank	VOC	0.05	<0.01
280T-F507	Catalyst Tank	PM	0.01	0.01
280V-E405	Crumb Tank Vent Condenser	VOC	0.13	0.04
280V-M202	HF Scrubber	VOC	0.67	0.01
		HF	0.02	<0.01
280WF	Wastewater Fugitives (4)	VOC	20.88	39.59

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			lb/hr	TPY**
286F	880 Unit Finishing Process	VOC	188.1	550.0

- (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 Title 30 Texas Administrative Code § 101.1
 PM - particulate matter, suspended in the atmosphere, including PM₁₀
 PM₁₀ - 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.
- SO₂ - sulfur dioxide
 NO_x - total oxides of nitrogen
 CO - carbon monoxide
 HF - hydrogen fluoride
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Emissions before installation of the 4D800 Vent Gas Absorber authorized by Standard Permit Number 50108 or until September 30, 2002, whichever comes first.
- (6) Emissions after installation of the 4D800 Vent Gas Absorber authorized by Standard Permit Number 50108 or after October 1, 2002, whichever comes first.

* 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 January 21, 2004