

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 23271

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**
16STK-001	Hydrogen Reformer	PM	1.24	5.42
		NO _x	15.60	68.30
		CO	9.90	43.40
		SO ₂	0.15	0.65
16VNT-002	Amine Stripper Vent	CO	6.84	30.00
16VNT-004	Hydrogen Plant Vent	(Start-up and shutdown use only)		
04FUG	Fugitives (4)	VOC	3.73	16.32
		NH ₃	0.84	3.67
04LRC-006	Railcar Loading	VOC	0.77	0.05
04VNT-007	Synthesis Process Vent	VOC	2.33	0.79
		NH ₃	4.35	1.30
04VNT-009	Refining Process Vent	VOC	0.08	0.01
		NH ₃	0.17	0.03
04VNT-010	Foreshots Column VS System	VOC	0.01	0.01
		NH ₃	15.80	2.65
04VNT-013	Refining Jet Condenser System	VOC	0.07	0.26
		NH ₃	1.59	5.95
04LTR-018	Truck Loading	VOC	1.56	0.04
		NH ₃	3.35	0.32
04TFX-020	North and South DCH Tanks Breather Pot	VOC	0.03	0.10
04TVS-023	HMD Blend Tanks Breather Pot	VOC	0.67	0.80

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
04TFX-025	"F" Crude DCH Tank Breather Pot	VOC	0.02	0.08
		NH ₃	0.01	0.02
04TFX-026	"E" HMD Rework Tank Breather Pot	VOC	0.08	0.06
		NH ₃	0.11	0.36
04TFX-027	Organic Waste Tank Breather Pot	VOC	0.18	0.02
04TFX-028	"A" Refined Tank Breather Pot	VOC	0.26	0.11
04TFX-029	"B" Refined Tank Breather Pot	VOC	0.26	0.07
04TVS-030	Crude Receiver Tanks Breather Pot	VOC	0.58	2.65
		NH ₃	0.46	2.09
04TFX-031	Recycle Water Tank	VOC	0.01	0.02
		NH ₃	0.05	0.30
04FLR-032	Diamine Flare	VOC	2.87	3.26
		NO _x	4.57	4.22
		CO	39.22	32.19
		SO ₂	0.18	0.14
		NH ₃	2.44	9.36
04TVS-033	Co-Product Storage Tanks Breather Pot	VOC	0.26	0.56
04TVS-034	Crude HMD Tanks	VOC	1.66	11.34
		NH ₃	0.58	3.96
04CWA-035	Cooling Basin (4)	VOC	1.81	2.63
04SWT-131	HMD Synthesis Lube Oil Sump	VOC	0.02	0.07
		NH ₃	0.01	0.01
04SWT-141	509 Primary Tank Farm Sump	VOC	0.01	0.01
		NH ₃	0.01	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
04SWT-142	Refining DCH Tank Waste Sump	VOC	0.01	0.01
		NH ₃	0.01	0.06
04SWT-002	541 West Intermediate Tank Farm Sump	VOC	0.01	0.01
		NH ₃	0.01	0.03
04SWT-143	541 East Intermediate Tank Farm Sump	VOC	0.01	0.01
		NH ₃	0.01	0.03

(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) PM - particulate matter

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO_x - total oxides of nitrogen

CO - carbon monoxide

SO₂ - sulfur dioxide

NH₃ - ammonia

(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:

** Compliance with annual emission limits is based on a rolling 12-month period. **(9/05)**

Hrs/day____Days/week____Weeks/year____or Hrs/year 8,760

Dated September 22, 2005