EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 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) Name (3)	Air Contaminant lb/hr TPY	<u>Emission</u>	Rates *
16STK-001	Hydrogen Reformer	PM NOx CO SO2	1.24 15.6 9.90 0.15	5.42 68.3 43.4 0.65
16VNT-002	Amine Stripper Vent	СО	6.84	30.0
16VNT-004	Hydrogen Plant Vent	(Start-up and Shutdown Use 0	Only)	
04FUG	Fugitives (4)	VOC NH3	7.80 1.3	33.55 5.6
04LRC-006	Railcar Loading	VOC	0.77	0.05
04VNT-007	Synthesis Process Ven	t VOC NH3	2.33 4.35	0.79 1.30
04VNT-009	Refining Process Vent	VOC NH3	0.08 0.17	0.01 0.03
04VNT-010	Foreshots Column VS System	VOC NH3	<0.01 15.80	<0.01 2.65
04VNT-013	Refining Jet Condenser System	VOC NH3	0.068 1.59	0.26 5.95
04LTR-018	Truck Loading	VOC NH3	1.56 3.35	0.04 0.32
04TFX-020	North DCH Tank Breath Pot	ner VOC	0.014	0.05
04TFX-021	South DCH Tank Breatl Pot	her VOC	0.014	0.05
04TVS-022	HMI Tanks Scrubber	VOC	0.03	0.09

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AIR CONTAMINANTS DATA

Emission Source Point No. (1) Name		sion Rates * hr TPY		
04TVS-023	HMD Blend Tanks Breather Pot	VOC	0.67	0.80
04TFX-025	"F" Crude DCH Tank Breather Pot	VOC NH3	0.02 <0.01	0.08 0.02
04TFX-026	"E" HMD Rework Tank Breather Pot	VOC NH3	0.08 0.11	0.06 0.36
04TFX-027	Organic Waste Tank	VOC	0.39	0.83
	Breather Pot			
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 NH3	0.58 0.46	2.65 2.09
04TFX-031	Recycle Water Tank	VOC NH3	<0.01 0.05	0.02 0.30
04FLR-032	HMD Flare	VOC NOx CO SO2 NH3	80.9 10.2 82.5 0.18 9.30	5.07 3.66 29.6 0.14 6.93
04TVS-033	Co-Product Storage Tanks Breather Pot	VOC	0.26	0.56
04TVS-034	Crude HMD Tanks	VOC NH3	1.66 0.58	11.34 3.96
04CWA-035	Cooling Basin (4)	VOC	0.41	1.78

		NH3	0.11	0.50
04SWT-131	HMD Synthesis Lube Oil Sump	VOC	0.016	0.069
04SWT-141	509 Primary Tank Farm Sump	VOC	0.002	0.012
04SWT-142	Refining DCH Tank Waste Sump	VOC	<0.001	0.003
04SWT-002	541 West Intermediate Tank Farm Sump	VOC	<0.001	0.001
04SWT-143	541 East Intermediate Tank Farm Sump	VOC	<0.001	0.001

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(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 General Rule 101.1
 - NOx 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:

Hrs/day_	Days/week	Weeks/year	or Hrs/year <u>8,760</u>	
			Dated	