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 Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

CONTAMINANTS DATA

AIR

Emission *	Source	Air Contaminan	t <u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
16STK-001	Hydrogen Reformer	$\begin{array}{c} PM \\ NO_x \\ CO \\ SO_2 \end{array}$	1.24 15.6 9.90 0.15	5.42 68.3 43.4 0.65
16VNT-002	Amine Stripper Vent	CO	6.84	30.0
16VNT-004 only)	Hydrogen Plant Vent	(Start-up	and shutdo	own use
04FUG	Fugitives (4)	VOC NH₃	3.73 0.84	16.32 3.67
04LRC-006	Railcar Loading	VOC	0.77	0.05
04VNT-007	Synthesis Process Vent	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 Syst	em VOC NH₃	<0.01 15.80	<0.01 2.65
04VNT-013	Refining Jet Condenser S 0.26	ystem	VOC	0.068
		NH ₃	1.59	5.95
04LTR-018	Truck Loading	VOC NH ₃	1.56 3.35	0.04 0.32

AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
04TFX-020	North and South DCH Tan Breather Pot	ks VOC	0.03	0.10
04TVS-023	HMD Blend Tanks Breathe	r Pot	VOC	0.67
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 Brea [.] 0.02	ther Pot	VOC	0.18
04TFX-028	"A" Refined Tank Breatho	er Pot	VOC	0.26
04TFX-029	"B" Refined Tank Breath 0.07	er Pot	VOC	0.26
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	Diamine Flare	$\begin{array}{c} \text{VOC} \\ \text{NO}_x \\ \text{CO} \\ \text{SO}_2 \\ \text{NH}_3 \end{array}$	2.87 4.57 39.22 0.18 2.44	3.26 4.22 32.19 0.14 9.36
04TVS-033	Co-Product Storage Tank Breather Pot	s VOC	0.26	0.56
04TVS-034	Crude HMD Tanks	VOC NH ₃	1.66 0.58	11.34 3.96
04CWA-035	Cooling Basin (4)	VOC	1.81	2.63

AIR CONTAMINANTS DATA

Emission <u>*</u>	Source	Air Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
04SWT-131	HMD Synthesis Lube Oil S 0.069	Sump	VOC	0.016
		NH_3	0.002	0.010
04SWT-141	509 Primary Tank Farm Su	ımp VOC	0.002	0.012
		NH_3	0.008	0.033
04SWT-142	Refining DCH Tank Waste 0.003	Sump	VOC	<0.001
		NH₃	0.015	0.064
04SWT-002	541 West Intermediate	VOC	<0.001	0.001
	Tank Farm Sump	NH_3	0.007	0.032
04SWT-143	541 East Intermediate	VOC	<0.001	0.001
	Tank Farm Sump	NH_3	0.007	0.032

- (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
 - 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:

Hrs/dayDays/weekWeeks/yearor Hrs/year_8,	<u>760</u>	
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AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission</u>	Rates
<u>^</u> <u>Point No. (1)</u>	Name (2)	Name (3)	lb/hr	TPY

Dated____