Permit Number 23271

[419705] Draft!!!!

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.

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
16STK-001	Hydrogen Reformer Stack	CO	14.40	63.07
		NH_3	0.55	2.40
		NO_X	10.80	47.30
		PM	1.30	5.71
		SO_2	0.03	0.11
		VOC	0.94	4.13
16VNT-002	Amine Stripper Vent	СО	7.17	29.88
04FUG	Fugitives (4)	Boric Acid	0.01	0.01
		CO	0.01	0.01
		NH_3	0.36	1.59
		VOC	9.74	42.09
04LRC-006	Railcar Loading Scrubber Emissions Scrubber	VOC	2.88	0.17
04LRC-006F	Railcar Loading Uncaptured Emissions	d VOC	2.88	0.17
04VNT-013	Refining System Vent	NH₃	1.14	5.01
	3 ,	VOC	0.35	1.55
04LTR-018	Truck Loading Scrubber	NH₃	5.36	0.34
	Emissions	VOC	10.28	0.50
04LTR-018F	Truck Loading Uncaptured	NH_3	1.39	0.09
	Emissions	VOC	2.03	0.12
04TFX-020	North DCH Tanks	NH_3	0.06	0.01
	Breather Pot	VOC	15.19	2.17
04TFX-021	South DCH Tank Breather	Pot VOC	1.40	0.08

Emission	Source	Air Contaminant <u>Emission Rates *</u>		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
04TVS-023	HMD Blend Tanks A-D Breather Pots	VOC	0.22	0.08
04TFX-025	"F" Crude DCH Tank Breather Pot	NH₃ VOC	0.08 15.19	0.02 3.55
04TFX-028	"A" Refined Tank Breather F	ot VOC	0.10	0.01
04TFX-029	"B" Refined Tank Breather F	ot VOC	0.10	0.01
Combined emissions from EPNs 04TFX-028 and 04TFX-029 shall not exceed		VOC	0.16	0.02
04FLR-032	Diamine Flare (HMD Flare) (Normal Operation Only)	CO H ₂ S NH ₃ NO _X SO ₂ VOC	71.77 0.19 19.48 14.58 17.56 12.03	67.93 0.01 31.55 17.18 0.11 6.75
04FLR-032	Diamine Flare (HMD Flare) (Maintenance, Startup, and Shutdown [MSS] Activities Only)	CO NH₃ NO _X VOC	10.53 1.79 3.74 20.87	0.27 0.03 0.09 0.55
04TVS-033	Co-Product Storage Tanks A - E Breather Pot	VOC	13.41	0.73
04TVS-034	Crude HMD Tanks A and B	NH₃ VOC	3.53 1.18	23.99 4.37
04CWA-035	Cooling Basin (4)	NH₃ VOC	0.34 1.84	1.49 8.08
04TFX-508	HMD Permeate Tank	NH₃ VOC	0.16 0.01	0.09 0.01

Emission	Source	Air Contaminant		Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**	
04TFX-506	Aqueous Waste Tank	NH_3	6.96	0.02	
		VOC	0.01	0.01	
04LBA-006A	Barge Loading Scrubber	VOC	0.06	0.09	
	Emissions				
04LBA-006F	Barge Loading Uncaptured	VOC	0.06	0.09	
	Emissions				
16TEV006	MDEA Topk	VOC	0.16	0.01	
16TFX006	MDEA Tank	VOC	0.16	0.01	
16TFX005	MDEA Tank	VOC	0.13	0.01	
04LDR022C	Drum loading of crude HMI	NH₃	0.11	0.01	
		VOC	0.10	0.01	
04DGR001	HMD Maintenance	VOC	0.36	0.33	
	Degreaser Area				
16VNT-004	Hydrogon Plant Vant (MSS)	СО	466.88	10.55	
10/11/1-004	Hydrogen Plant Vent (MSS)	VOC	106.54	3.41	
				5-	
04VNT-007	Synthesis Process Vent	NH₃	0.02	0.01	
04VNT-007	Synthesis Process Vent (MS	SC) NIH.	6.75	0.01	
04 V I V I - 00 I	Synthesis Frocess Vent (MS	VOC	0.73	0.01	
04VNT-009	Refining Process Vent (MSS	,	0.38	0.01	
		VOC	0.01	0.01	
04VNT-010	Foreshots Column Vent (MS	SS) NH ₃	1.32	0.09	
	•	, voc	0.37	0.03	
0451 D 022	Diamina Flave (UMD Flave)	60	0.05	0.01	
04FLR-032	Diamine Flare (HMD Flare) (MSS)	— CO — NH₃	0.25 1.19	0.01 0.01	
	(IVIOO)	NO _X	0.33	0.01 0.01	
			3.00	3.01	

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
04TANKOPEN	Tank Depressure (MSS)	NH_3	6.31	0.01
	, , ,	VOC	2.24	0.02
04FUG-MSS	Fugitive Emissions (MSS)	NH_3	2.87	0.09
		PM/PM ₁₀	0.20	0.01
		VOC	17.84	1.35
04SWT-002	Flushing N112 Unloading Line to Sump	VOC	0.01	0.01
11LTR-067F	WOTL Uncaptured Emissions	VOC	0.47	0.01
10LRC-074F	ADN LBW Loading	NH_3	0.01	0.01
	Uncaptured Emissions	voc	0.29	0.26
04LDR-022D	Drum Loading Refined HMI	VOC	0.09	0.01
04LDR-036B	Drum Loading Crude MGN	VOC	0.01	0.01
04LDR-037B	Drum Loading Refined MGN	VOC	0.01	0.01
04LDR-025B	Drum Loading Crude	NH_3	0.01	0.01
	DCH	VOC	0.07	0.01
04LDR-020B	Drum Loading Refined DCH	VOC	0.01	0.01
04LDR-028B	Drum Loading Refined HMD	VOC	0.02	0.01
04LDR-033D	Drum Loading BHMT	VOC	0.03	0.01

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
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04SEP-001	Oil/Sand Separator	NH_3	3.14	3.28
	·	VOC	0.01	0.01
11TFX-354	SELF Leachate Tank A	NH₃	0.01	0.01
		VOC	0.01	0.01
11TFX-355	SELF Leachate Tank B	NH ₃	0.01	0.01
		VOC	0.01	0.01
11TFX-356	SELF Leachate Tank C	NH_3	0.01	0.01
		VOC	0.01	0.01
11TFX-357	SELF Leachate Loading	NH₃	0.01	0.01
		VOC	0.01	0.01

(1)	Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) (3)	Specific point source name. For fugitive sources use area name or fugitive source name. $CO - carbon monoxide \\ H_2S - hydrogen sulfide \\ NH_3 - ammonia \\ NO_X - total oxides of nitrogen \\ PM - particulate matter, suspended in the atmosphere, including PM_{10} PM_{10} - particulate matter equal to or less than 10 microns in diameter SO_2 - sulfur dioxide$
(4)	VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1 Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
*	Emission rates are based on and the facilities are limited by the following maximum operating schedule:
	Hrs/dayDays/weekWeeks/yearor Hrs/year_8,760_
**	Compliance with annual emission limits is based on a rolling 12-month period.
	Dated: