Permit Numbers 18838 and PSD-TX-843

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 A		Air	Contaminant	Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**
AH-PXP-1N	Analyzer Vent		VOC	0.01	0.01
AH-PXP-1S	Analyzer Vent		VOC	0.01	0.01
DG-1	Aromatics Degreaser No.	1	VOC	0.15	0.65
DG-2	Aromatics Degreaser No.	2	VOC	0.15	0.65
DG-3	Aromatics Degreaser No.	3	VOC	0.15	0.65
DG-5	Aromatics Degreaser No.	5	VOC	0.15	0.65
EH-31		IO _x PM ₁₀	CO 0.79 0.06 SO ₂ VOC	0.67 3.48 0.26 0.01 0.04	2.92 0.02 0.19
EH-37	No. 2 Lift Station Middle (330 hours per year)	oc.	CO NO _x PM ₁₀ SO ₂ 0.25	1.15 1.75 0.01 0.01 0.04	0.19 0.29 0.01 0.01
EH-37A	No. 2 Lift Station North (100 hours per year)	oc.	CO NO _x PM ₁₀ SO ₂ 0.27	1.26 1.92 0.01 0.01 0.02	0.06 0.10 0.01 0.01

Emission Source		Air Conta	aminant	Emission Rates *		
Point No. (1)	Name (2)		Nam	e (3)	lb/hr	TPY**
EH-39 (26 l	Emergency Fire Wanours per year) PM ₁₀ 0.77 0.01 SO ₂ 0.72 0.01			0.03		
	0.02		VOC 0.88	0.01		
	Emergency Fire Wanours per year) PM ₁₀ 0.84 0.01 SO ₂ 0.78 0.01	•		0.03		
	302 0.70 0.01		VOC 0.95	0.01		
	Emergency Fire Wanours per year) $PM_{10} 1.15 0.01$ $SO_2 1.07 0.01$	•		0.05		
	302 1.07 0.01		VOC 1.31	0.02		
EH-9201	Reboiler B-9201	CO 2.89	7.71 NO _x (7) PM ₁₀ 0.72	7.23 17.34 1.93		
	SO ₂ 0.09 0.23 VOC 0.20 0.54			2.00		
EH-9301	Heater B-9301	CO 1.79	NO _x (7)	4.48 12.42		
	SO ₂ 0.05 0.16 VOC 0.25 0.77		PM ₁₀ 0.45	1.38		
EH-9400	Reboiler B-9400	CO 1.10	3.44 NO _x (7) PM ₁₀ 0.28 SO ₂ 0.03	2.75 7.75 0.86 0.10		
	VOC 0.15 0.48		302 0.03	0.10		
EH-9401	Reboiler B-9401	CO 6.13	23.21 NO _x (7)	15.32 46.43		

Emission Source			Air Conta	Emission Rates *		
Point No. (1) Name (2)			Nam	ie (3)	lb/hr	TPY**
	SO ₂ 0.18 0.69 VOC 0.43 1.64		PM ₁₀ 1.53	5.80		
EH-9402	Reboiler B-9402 CO	1.12	2.63 NO _x (7) PM ₁₀ 0.28	2.79 5.91 0.66		
	SO ₂ 0.03 0.08 VOC 0.16 0.37			0.00		
EH-9601 (Nor	Flare Paraxylene Unit mal Operation Only) NO _x SO ₂ 0.02 0.08	CO 0.31	1.57 6.86 1.35			
	302 0.02 0.00		VOC 1.12	4.92		
Maintenance Operation Only (460 hours per year) NO _x		CO 10.34)		
			SO ₂ 1.09 VOC 15.99			
Maintenance Operation Only (672 hours per year) (9) NO _x		CO 19.98	102.90 6.71	34.58		
			SO ₂ 0.16 VOC 55.15			
EH-9602	Wharf Loading VCS	СО	2.30 5.04 NO _x 7.40 VOC 6.51			
EH-9603 Oxid	Wharf Tank Farm Thermalizer NO_x 0.20 0.88 PM_{10} 0.26 1.14 SO_2 0.01 0.01	l	CO 0.35	1.55		
	3O ₂ 0.01 0.01		VOC 0.86	3.48		

Emission Source			Air Contaminant				Emission Rates *				
Point No. (1) Name (2)				Nam	e (3)			lb/hr		TPY**	
EH-9604 Oxio	PM ₁₀ 0.10 0.44		nal	СО	0.12	0.53					
	SO ₂ 0.01 0.01			VOC	0.31	1.34					
EH-9616 Emergency Fire Wate (876 hours per year) N PM ₁₀ 1.20 0.02			mp 16.93		3.65	0.05					
	SO ₂ 1.12 0.01	Ĺ		VOC	1.37	0.02					
EM-2 Coolii	ng Tower No. 2	VOC	0.63	2.76							
EM-37	-37 Carbon Adsorption System					4.30)		0.12			
EM-38	Carbon Adsorption System				(5) (6) (8)		0.41	0.01 0.12			
EM-9601	Cooling Tower M-9	601	VOC	0.50	2.21						
ET-4 Sulfu	ric Acid Storage Tanl	K	H ₂ SO	4	0.01	0.01					
ET-34	Reformate Storage	Tank	VOC	0.81	1.05						
ET-79 Sulfuric Acid Storage Tank		<	H ₂ SO	4	0.01	0.01					
ET-1201	Diesel Storage Tan	k	VOC	0.26	0.01						
ET-9621	Diesel Storage Tan	k	VOC	0.26	0.01						
EF-3 Proce	ess Fugitives (4)	VOC	0.59	2.56							
EF-4 Proce	ess Fugitives (4)	VOC	0.16	0.72							
EF-6 Process Fugitives (4) VOC 0.27			1.19								

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)		Ai	r Contaminant Name (3)	Emission Rate	<u>TPY**</u>
EF-9 Proce	ss Fugitives (4) VOC	1.35	5.90			
EF-10	Process Fugitives (4)	VOC	0.26	1.12		
EF-11	Process Fugitives (4)	VOC	0.06	0.26		
EF-17	Process Fugitives (4)	VOC	0.28	1.24		
EF-10 EF-11	Process Fugitives (4) Process Fugitives (4)	voc voc	0.26 0.06	0.26		

- (1) Emission point identification either specific equipment designated or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources use area name or fugitive source name.
- (3) CO carbon monoxide

H₂SO₄ - sulfuric acid

NO_x - total oxides of nitrogen

 PM_{10} - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.

SO₂ - sulfur dioxide

- VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Four hours per year from EPNs EM-37 and EM-38 is allowed.
- (6) Emission allowables shown for EPNs EM-37 and EM-38 do not emit at the same time during planned maintenance activities.
- (7) PSD-TX-843 pollutant
- (8) 568 hours per rolling 12 months
- (9) 672 hours per rolling 12 months when the vapor control system to EPN EH-9602 for control of collected VOC emissions from barge and ship loading is down for planned maintenance.
- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

** Compliance with annual emissions is based on a rolling 12-month period.

Dated <u>February 6,</u>

2007