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.

AIR CONTAMINANTS DATA

Emission	Source 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. 2	1	VOC	0.15	0.65	
DG-2	Aromatics Degreaser No. 2	2	VOC	0.15	0.65	
DG-3	Aromatics Degreaser No. 3	3	VOC	0.15	0.65	
DG-5	Aromatics Degreaser No. 5	5	VOC	0.15	0.65	
EH-31		O _x M 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)		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)		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	

EH-9400 Reboiler B-9400

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission	Source		Air Conta	minant	Emission Rat	es <u>*</u>
Point No. (1)	Name (2)		Name	e (3)	lb/hr	TPY**
(26 hours pe PM ₁₀	ency Fire Water Pum er year) NO _x 0.77 0.01 0.72 0.01			0.03		
	0.72 0.01	,	VOC 0.88	0.01		
(26 hours pe PM ₁₀	ency Fire Water Pum er year) NO _x 0.84 0.01 0.78 0.01	•		0.03		
302	0.70 0.01	,	VOC 0.95	0.01		
(26 hours pe PM ₁₀	ency Fire Water Pum er year) NO _x 1.15 0.01 1.07 0.01			0.05		
302	1.07 0.01	,	VOC 1.31	0.02		
EH-9201 Reboile	er B-9201 CO		7.71 NO _x (7) PM ₁₀ 0.72	7.23 17.34 1.93		
	0.09			2.00		
EH-9301 Heater	B-9301 CO			4.48 12.42 1.38		
-	0.05					

CO 1.10 3.44

NO_x (7) 2.75 7.75

AIR CONTAMINANTS DATA

Emission Source		Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr TPY**	
	VOC 0.15 0.48	PM ₁₀ 0.28 0.86 SO ₂ 0.03 0.10		
EH-9401	Reboiler B-9401 CO SO ₂ 0.18 0.69 VOC 0.43 1.64	6.13 23.21 NO _x (7) 15.32 46.43 PM ₁₀ 1.53 5.80		
EH-9402	Reboiler B-9402 CO SO ₂ 0.03 0.08 VOC 0.16 0.37	1.12 2.63 NO _x (7) 2.79 5.91 PM ₁₀ 0.28 0.66		
EH-9601 (Nor	Flare Paraxylene Unit mal Operation Only) NO_x SO_2 1.10 0.34	CO 1.57 6.86 0.31 1.35 VOC 0.02 0.08		
Maintenance Operation Only (460 hours per year) NO _x				
	enance Operation Only hours per year) (9) NO _x			
EH-9602	Wharf Loading VCS	CO 2.30 5.04 NO _x 7.40 16.21 VOC 6.51 4.03		

AIR CONTAMINANTS DATA

Emission Source		Air Contaminant			Emission I	Emission Rates *		
Point No. (1)	Name (2)			Nam	e (3)		lb/hr	TPY**
EH-9603 Oxio	Wharf Tank Farm Thermal lizer NO_x 0.20 0.88 PM_{10} 0.26 1.14 SO_2 0.01 0.01		СО	0.0	0.0			
	302 0.01 0.01		VOC	0.86	3.48			
EH-9604 Oxid	PM ₁₀ 0.10 0.44	al	СО	0.12	0.53			
	SO ₂ 0.01 0.01		VOC	0.31	1.34			
EH-9616 (876	Emergency Fire Water Pumphours per year) $NO_x = 0$ $PM_{10} = 0.0 = 0.0$ $SO_2 = 0.0 = 0.0$		CO 0.0	0.0	0.0			
	302 0.0 0.0		VOC	0.0	0.0			
EM-2 Cooling Tower No. 2 VOC 0.63			2.76					
EM-37	Carbon Adsorption System		VOC VOC	(5) (6) (8)	4.30)	0.01 0.41	0.12	
EM-38	Carbon Adsorption System		VOC VOC	(5) (6) (8)	4.30)		0.12	
EM-9601	Cooling Tower M-9601 V	/OC	0.50	2.21				
ET-4 Sulfu	ric Acid Storage Tank	H ₂ SO	4	0.01	0.01			
ET-34 ET-79	Reformate Storage Tank V Sulfuric Acid Storage Tank	/OC	0.81 H ₂ SO		0.01	0.01		
ET-1201	Diesel Storage Tank V	/OC	0.26	0.01				

AIR CONTAMINANTS DATA

Emiss	sion	Source			Ai	r Contaminant	Emission Rate	<u>s *</u>
Point	No. (1)	Name (2))			Name (3)	lb/hr	TPY**
ET-96	21	Diesel Storage Tan	ık	VOC	0.26	0.01		
EF-3	Proce	ss Fugitives (4)	VOC	0.59	2.56			
EF-4	Proce	ess Fugitives (4)	VOC	0.15	0.68			
EF-6	Proce	ss Fugitives (4)	VOC	0.27	1.19			
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		

- (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 Emission Point Nos. (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

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- (8) 568 hours per rolling twelve months
- (9) 672 hours per rolling twelve 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:

Hrs/day 24 Days/week 7 Weeks/year 52

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

Dated	
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