Flexible Permit Number 18897

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

205

535

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
VOC Cap:				
Flare 112 (7), Boilers, Furnaces, Heaters, Compressors, Incinerator, Thermal Oxidizer, FCCU/WGS, Fire Water Pump, Thermal Combustors, Cooling Towers (4), Fugitive Emissions (4), Loading Racks, Fixed Roof Tanks, Floating Roof Tanks, and Carbon Canister Systems				
		Initial VOC Cap Final VOC Cap (6)	697 403	1114 930
NO _x Cap: Flare 112 (7), Boilers, Compressors, Incine Thermal Oxidizer, For Fire Water Pump, ar	erator,			
		Initial NO _x Cap	603	1346

Final NO_x Cap (6)

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Air Contaminant <u>Emission Rates *</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
Compressors, In Thermal Oxidize				
		Initial CO Cap Final CO Cap (6)	266 171	613 479
PM Cap: Boilers, Furnaces Compressors, In Thermal Oxidize FCCU/WGS, Fire Thermal Combus and Solid Waste	cinerator, r, e Water Pump, stors,			
		Initial PM Cap Final PM Cap (6)	53 53	99 99
SO ₂ Cap: Flare 112 (7), Boil Compressors, In Thermal Oxidize Fire Water Pump and Thermal Cor	r, FCCU/WGS, o,			
		Initial SO₂ Cap Final SO₂ Cap (6)	227 157	521 375

H₂S Cap:

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant <u>Emission Rates</u>		Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
Absorber, Incine Thermal Oxidize Thermal Combu Carbon Canister Fugitive Emission	er, stors, EPN PK-854, on EPNs F-16N, F-39, =-11, and F-13 (4),			
		Initial H₂S Cap Final H₂S Cap (6)	3 2	6 4
COS Cap: Absorber				
		Initial COS Cap Final COS Cap (6)	1 1	5 5
H₂SO₄ Cap: FFCU/WGS				
		Initial H₂SO₄ Cap Final H₂SO₄ Cap (6)	4 4	18 18
NH₃ Cap: Carbon Canister	EPN PK-854			
		Initial NH₃ Cap Final NH₃ Cap (6)	0.01 0.01	0.06 0.06

HCl Cap:

pH Neutralization

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant		Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**
			HCl Cap HCl Cap (6)	0.77 0.10	0.15 0.02
Benzene Cap: Fugitive Emissions EF F-39, F-41, TNK-FUG F-11, F-16S, F-22, a Thermal Oxidizer, Carbon Canister PK- Fixed-Roof Tanks, a Floating Roof Tanks	G, F-1/2, F-3/4, F-8, nd FUG (4), -854,				
			Benzene Cap Benzene Cap (6)	1.75 1.60	5.90 5.24
D-2914	Relief Gas Emergency Flare	(5) NO _x CO SO ₂	VOC 0.16 0.80 0.01	0.01 0.68 3.48 0.01	0.06
R-2911	Rheniformer Emergency Flar	e (5) NO _x CO SO ₂	VOC 0.02 0.11 0.01	0.01 0.10 0.49 0.01	0.01
128	Sour Water Stripper Emerger Flare (5)	CO SO ₂	VOC NO _x 0.10 0.01	0.01 0.05 0.43 0.01	0.01 0.21
XF7104	Standby SRU Tailgas Incinerator (5)	СО	VOC NO _x 0.08	0.01 0.23 0.24	0.04 0.67

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant		<u>Emission</u>	Emission Rates *	
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**	
		PM	0.02	0.05		
		SO_2	0.01	0.01		
		H_2S	0.01	0.01		
112	Plant Emergency/AAG/		VOC	0.01	0.01	
	Main South Flare (5, 7)		NO_x	0.02	0.07	
	, ,	CO	0.11	0.49		
		SO_2	0.01	0.01		

- (1) Emission point identification either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - NO_x total oxides of nitrogen
 - SO₂ sulfur dioxide
 - PM particulate matter, suspended in the atmosphere, including PM₁₀.
 - PM_{10} particulate matter 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.
 - CO carbon monoxide
 - H₂S hydrogen sulfide
 - HCl hydrochloric acid
 - H₂SO₄ sulfuric acid
 - COS carbonyl sulfide
 - NH₃ ammonia
- (4) Emission rates are an estimate and enforceable through compliance with the applicable special condition(s) and permit application representations.
- (5) Only pilot emissions are authorized for these combustion sources.
- (6) The final caps will be implemented eight years after permit issuance.
- (7) EPN 112 will be authorized for use as a process flare through September 2007. After that, only pilot emissions will be authorized for the flare, and the flare will no longer be included in the pollutant caps.

Pa	ge 6
	EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES
*	Emission rates are based on and the facilities are limited by the following maximum operating schedule:
**	Compliance with annual emission limits is based on a calendar year basis for the first eight years after this permit was issued, and a rolling 12-month basis thereafter.
	24 Hrs/day 7 Days/week 52 Weeks/year or Hrs/year
	Dated April 4, 2005