Permit Nos. 36644, PSD-TX-903, and N-007

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 <u>*</u>	Source	Air Contaminant	Emissio	n Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY
N-1	Recycle Ethane Cracking Furnace	NO_x SO_2 CO PM_{10} VOC	27.40 1.19 26.37 1.71 0.65	94.52 5.21 115.22 7.50 2.85
N-2	Fresh Feed Cracking Heat	er NO _x SO ₂ CO PM ₁₀ VOC	35.63 1.55 34.30 2.23 0.85	122.91 6.77 150.22 9.75 3.71
N-3	Fresh Feed Cracking Heat	er NO _x SO ₂ CO PM ₁₀ VOC	35.63 1.55 34.30 2.23 0.85	122.91 6.77 150.22 9.75 3.71
N-4	Fresh Feed Cracking Heat	er NO _x SO ₂ CO PM ₁₀ VOC	35.63 1.55 34.30 2.23 0.85	122.91 6.77 150.22 9.75 3.71
N-5	Fresh Feed Cracking Heat	er NO _x SO ₂ CO PM ₁₀	35.63 1.55 34.30 2.23	122.91 6.77 150.22 9.75

VOC 0.85 3.71

Emission *	Source	Air Contaminant	<u>Emissi</u>	on Rates
Point No. (1)	Name (2)	Name (3)	1b/hr1	<u>PY</u>
N-6	Fresh Feed Cracking 122.91	Heater	NO_x	35.63
		SO_2	1.55	6.77
		CO	34.30	150.22
		PM_{10}	2.23	9.75
		VOC	0.85	3.71
N-7	Fresh Feed Cracking 122.91	Heater	NO _x	35.63
		SO_2	1.55	6.77
		CO	34.30	150.22
		PM_{10}	2.23	9.75
		VOC	0.85	3.71
N-8	Fresh Feed Cracking 122.91	Heater	NO_x	35.63
	-	SO_2	1.55	6.77
		CO	34.30	150.22
		PM_{10}	2.23	9.75
		VOC	0.85	3.71
N-9	-9 Fresh Feed Cracking Heater 122.91		NO_x	35.63
		SO ₂	1.55	6.77
		CO	34.30	150.22
		PM_{10}	2.23	9.75
		VOC	0.85	3.71
N-10	Catalyst Regeneration <0.001	on Effluent	VOC	<0.001
N-11	Reactor Regeneration <0.001	n Effluent	VOC	<0.001

Emission	Source	Air Contaminant	Emission	Rates
Point No. (1)	Name (2)	Name (3)	1b/hrTPY	
N-12	DP Reactor Feed Heater	NO _x SO ₂ CO PM ₁₀ VOC	0.22 0.69 0.38	3.71 0.95 3.02 1.64 0.74
N-13	DP Reactor Regeneratio	n Heater	NO _x	1.73
	2.12	SO ₂ CO PM ₁₀ VOC	0.24 0.13	0.10 0.31 0.17 0.08
N-14A	Auxillary Boiler	NO_x SO_2 CO PM_{10} VOC	1.44 28.70 12 2.91 1	1.10 6.32 5.72 2.75 2.75
N-14B	Auxillary Boiler	NO_{x} SO_{2} CO PM_{10} VOC	1.44 28.70 12 2.91 1	1.10 6.32 5.72 2.75 2.75
N-15	Flare	VOC NO _x CO SO ₂	0.49 3.50 1	6.45 2.12 5.34 0.03
N-16	Emergency Generator	NO _x	36.68	2.86

Emission	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	lb/hrTP	Υ
		SO ₂ CO PM ₁₀ VOC	2.43 7.90 2.60 2.97	0.19 0.62 0.20 0.23
N-17	Condensate Splitter He	ater	NO_x	16.89
		SO ₂ CO PM ₁₀ VOC	0.73 2.32 1.27 0.57	3.21 10.17 5.55 2.50
N-18	Decoking Drum	CO PM ₁₀	720.00 78.73	27.88 3.04
TK-2501	IFR Spent Caustic	VOC	0.29	1.16
TK-8001	IFR WW Equalization	VOC	0.39	1.72
TK-8101	EFR Contaminated Storm <0.001	water	VOC	<0.001
TK-8010	EFR Contaminated Storm <0.001	water	VOC	<0.001
TK-7702	Sulfuric Acid Tank	H_2SO_4 SO_3	<0.001 <0.001	<0.001 <0.001
D-7703	IFR Wash Oil Day Tank	VOC	0.04	0.05
D-7705	IFR Tank	VOC	0.09	0.06

Emission *	Source	Air Contaminant	<u>Emission Rates</u>
Point No. (1)	Name (2)	Name (3)	lb/hrTPY
TK-3005	IFR Tank	VOC	0.68 1.58
TK-3002	EFR Tank	VOC	0.33 0.90
TK-3003	EFR Tank	VOC	0.33 0.90
TK-3004	EFR Tank	VOC	0.43 0.46
TK-3006	IFR Tank	VOC	0.26 0.56
TK-3007	IFR Tank	VOC	0.57 2.37
TK-3000	IFR Tank	VOC	0.92 3.68
TK-3001	IFR Tank	VOC	0.92 3.68
F-1	Fugitives (4)	VOC	2.44 10.77
F-2	Cooling Tower	VOC (5) Benzene PM ₁₀	10.08 44.15 0.45 1.99 2.50 2.59
TBN (6)	Cogen	NO_x SO_2 CO PM_{10} VOC	86.6 185.06 5.31 12.83 65.3 252.06 8.42 25.7 8.79 25.73

⁽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⁾ VOC - volatile organic compounds as

Source

Emission

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Air Contaminant <u>Emission Rates</u>

Dated____

Point No. (1) Nam	ne (2)	Name (3)	lb/hrTPY
1 6: 1 : 6 . 7	D 3 404 4		
defined in General			
NO _x - total oxide	_		
SO ₂ - sulfur diox			
			than 10 microns in
diameter. Wher	e PM is not lis	ted, it shall	be assumed that no
particulate matt	er greater than 10) microns is em	nitted.
CO - carbon mono	xide		
H₂SO₄ - sulfuric ac	id		
SO₃ - sulfur trio			
(4) Fugitive emi		estimate only	and should not be
considered as a ma			
(5) The VOC emiss			ower are 10 08 nounds
			ne. The VOC emission
rates are for tota		neruaring benze	ne. The voc emission
		unit omiccion	s. The cogeneration
			uct burners, and a
			rmit may choose the
			's N-14A, N-14B, and
			supplemental boiler.
			on, EPN's for each
•		as required	by Special Condition
No. 26 of this per	mit.		
* Emission rates are	e based on and t	the facilities	are limited by the
following maximum	operating schedul	e:	
11 / 1	D- /	1	0.700
	Days/we	ек	Weeks/year or <u>8,760</u>
Hrs/year			