EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS

Flexible Permit Numbers 38754 and PSD-TX-324M11

EMISSION CAP TABLE

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.

See Attachment I for Source Name and Emission Point Number Index. All caps for all compound categories must be met for all averaging periods.

VOC EMISSION CAPS

Source Name	Year	lb/hr	TPY
Fired Units, 121, 126e, Tanks, Loading, and Fugitives (4)	1999	4,013	1,544
	2000 (5)	1,573	1,209
	2001	1,569	1,199
	2002	1,554	1,159
	2003 (Final)	1,147	1,039
126n and 158	2000 (Final)	226	39.6
195 and GD-FUG	Final	4.0	17.5
Loading - East (7)	Final		20.4

NO_x EMISSION CAPS

Source Name	Year	lb/hr	TPY
Fired Units, 121	1999 (Final)	883.0	3717.0
Fired Units, 121 and 126	1999 (Final)	897.0	3724.0
126 and 158	1999 (Final)	75.8	18.8
195	Final	7.7	33.5

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS

SO_2 EMISSION CAPS

Source Name	Year	lb/hr	TPY
Fired Units 121 and 168	1999 (Final)	474	1925
Fired Units 121, 126, and 168	1999 (Final)	490	1933
126, 158	1999 (Final)	51.1	12.0
195	Final	5.9	25.7

CO EMISSION CAPS

Source Name	Year	lb/hr	TPY
Fired Units 121	1999 (Final)	1190	5053.0
Fired Units 121 and 126	1999 (Final)	1211	5067.0
126 and 158	1999 (Final)	472	90.5
195	Final	18.7	82.0

PM EMISSION CAP

Source Name	Year	lb/hr	TPY
Fired Units 121	1999 (Final)	223.3	712.0
195	Final	1.6	7.1

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS

H_2S EMISSION CAP

Source Name	Year	lb/hr	TPY
121, Fugitive (4), Tanks, 126, 158	1999 (Final)	3.1	13.6
GD-FUG	Final	0.02	0.10

BENZENE EMISSION CAP

Source Name	Year	lb/hr	TPY
Fired Units, 121, Tanks, 126, 158, Loading, and Fugitives (4)	1999	26.0	11.2
	2000 (5)	13.3	7.6
	2001	13.3	7.6
	2002	13.2	7.4
	2003 (Final)	13.7	7.1
GD-FUG	Final	0.02	0.08
Loading - East (7)	Final		0.1

H_2SO_4 EMISSION CAP

Source Name	Year	lb/hr	TPY
121	1999 (Final)	42.0	184.0

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSIONS LIMITATIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates lb/hr	Emission Rates TPY
168	Oleflex Scrubber	HCl	0.06	0.28
		Cl_2	0.01	0.04
		H_2SO_4	<0.01	0.01
155	CRU CCR	HCl	0.07	0.29
1CT	CU/VRU Cooling Tower	VOC	0.21	0.92
122	HOC Cooling Tower	VOC	6.09	26.67
123	ALKY Cooling Tower	VOC	1.26	5.52
167-CT	BUP Cooling Tower	VOC	1.68	7.36
AE-49601A/B	Analyzer Vent AE-49601A/B	VOC	<0.01	<0.01
AE-49900A/B	Analyzer Vent AE-49900A/B	VOC	<0.01	<0.01
AE-49901A/B	Analyzer Vent AE-49901A/B	VOC	<0.01	<0.01
135	Acid Gas Flare (6)	VOC	7.26	4.97
		NO_x	0.82	0.56
		SO_2	36.38	24.89
		CO	7.06	4.83
		H_2S	0.36	0.25
128	Halo Flare	Emergency Use Only		

(1) Emission point identification - either specific equipment designation or emission point number

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

from plot plan per Attachment 1.

(2) Specific point source name. For fugitive sources use 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
SO_2 - sulfur dioxide
CO - carbon monoxide
PM - particulate matter, suspended in the atmosphere, including PM_{10} and as identified on Confidential Table 1 **(dated 4/7/00)**
PM_{10} - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
H_2S - hydrogen sulfide
H_2SO_4 - sulfuric acid
HCl - hydrochloric acid
Cl_2 - chlorine

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

(5) Year 2000 emissions are based upon the calendar year; subsequent years are a rolling average.

(6) Emissions are only authorized from this point through December 31, 2002. After that date, this emission point is emergency use only.

(7) Emission cap is for loading of desulfurized gasoline from the East Plant; the annual emissions are not included in any of the other emission caps. There is no increase in hourly emission rates above that authorized in the other emission caps.

Dated_____

ATTACHMENT 1

Flexible Permit Numbers 38754 and PSD-TX-324M11

Permit Emission Points by Type

Category: Fired Units	EPN	Description
	1	Crude Heater
	74	Vacuum Unit Heater
	114	Desalter Heater
	115	HDS Charge Heaters
	116	HDS Heavy Oil Preheater
	117	Alky Fract Reboiler
	118	Hydrogen Reformer Heater
	119	Sulften Heater
	120	Butamer Heater
	131	Crude Preflash Heater
	132	Crude Stabilizer Heater
	150	HCU Heater
	151	NHT Heater
	152	CRU Heaters
	153	Boiler 30-B-02
	162	Oleflex Heaters
	172	RSU Heater
	49H90	C7 Splitter Reboiler
	49H02	49H02
	47H05	47H05
	49HDIC6	49HDIC6
	O2HO2	Vacuum PF Heater
	127	MTBE Flare
	124	API Separator Combustor
	TRUCKCOMB	Truck Loading Combustor
	195	GD Charge Heater

Category: Tanks	EPN	Description
	5	Tank No. 93
	6	Tank No. 94
	7	Tank No. 95
	8	Tank No. 96
	9	Tank No. 101
	10	Tank No. 102
	11	Tank No. 103
	12	Tank No. 104
	13	Tank No. 105

Category: Tanks (cont'd)	EPN	Description

	15	Tank No. 108
	16	Tank No. 109
	17	Tank No. 110
	34	Tank No. 97
	35	Tank No. 98
	36	Tank No. 99
	37	Tank No. 100
	46	Tank No. 137
	48	Tank No. 139
	TK-51	Tank No. 51
	60	Tank No. 14
	61	Tank No. 15
	63	Tank No. 149
	64	Tank No. 150
	69	Tank No. 9
	70	Tank No. 16
	71	Tank No. 17
	72	Tank No. 18
	88	Tank No. 57
	89	Tank No. 58
	90	Tank No. 59
	91	Tank No. 60
	92	Tank No. 61
	93	Tank No. 19
	94	Tank No. 20
	95	Tank No. 77
	96	Tank No. 78
	TK-112	Tank No. 112
	TK-114	Tank No. 114
	129	Tank No. 156
	140	Tank No. 161
	142	Tank No. 111
	156	Tank No. 62
	157	Tank No. 63
	164	Tank No. 64
	165	Tank No. 65
	166	Tank No. 76
	169	Tank No. 75
	173	Tank No. 115
	174	Tank No. 116
Category: 121	EPN	Description
	121	FCC Scrubber/SRU Incinerator
	121a	SRU Incinerator
Category: 126	EPN	Description
	126	Main Flare

Category: 126e	EPN	Description
	126	Facilities venting to the main flare not covered by category 126n

Category: 126n	EPN	Description
	126	reformer pressure swing absorber, catalytic reformer unit fuel gas drum No. 1, catalytic reformer unit fuel gas drum No. 2, crude preflash OH accumulator, stabilizer OH accumulator, crude tower OH accumulator, and purge gas vented to the main flare

Category: 158	EPN	Description
	158	Ground Flare

Category: Fugitive	EPN	Description
	1F	Crude Unit
	2F	Vacuum Unit
	4F	LEU
	11F	Desalter Unit
	12F	HDS Unit
	13F	SMR

Category: Fugitive	EPN	Description
	18F	HRLEU Unit
	20F	LRU
	21/22F	HOC Unit
	30B02F	30-B-02
	30B03F	30-B-03
	31F	HF Alkylation Unit
	36F	Butamer Unit
	37F	MTBE
	38F	Oleflex
	41/46/24F	SULF/SEU/SRU
	47F	HCU

	47PSAF	PSA
	48F	NHT
	49F	CRU
	54F	MTBE/TAME Unit
	133F	Powerhouse
	175	49-RSU/XFU
	FUG-DOCKS	Docks
	FUELDRM	Fuel Gas Drum
	GBF	Gas Blending
	LPGSTGF	LPG Storage
	MVRUF	MVRU
	T1F	Terminal 1
	T2/2AF	Terminal 2/2A
	T3F	Terminal 3
	TRKRACKFUG	Truck Rack
	ATU3FUG	Amine
	SRU3FUG	SRU
	SCOTFUG	SCOT
	GD-FUG	Gasoline Desulfurization

Category: Loading	EPN	Description
	VRU	Marine loading VRU
	31	Barge Loading
	SHIP2	Ship Dock No. 2
	SHIP3	Ship Dock No. 3
	TRUCKFUG	Truck Loading

Category: Loading - East	EPN	Description
	VRU	Marine loading VRU
	31	Barge Loading
	SHIP2	Ship Dock No. 2
	SHIP3	Ship Dock No. 3
	TRUCKFUG	Truck Loading

Dated_____