

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Nos. 38754 and PSD-TX-324M9

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.

VOC EMISSION CAP

<u>Source Name</u>	<u>Year</u>	<u>lb/hr</u>	<u>TPY</u>
Fired Units, 121,Tanks, Marine Loading, Fugitives (4)	1998	3920	1507
	1999	3920	1507
	2000 (Final)	1612	1114

NO_x EMISSION CAP

<u>Source Name</u>	<u>Year</u>	<u>lb/hr</u>	<u>TPY</u>
Fired Units, 121	1998 (Final)	882.7	3717

SO₂ EMISSION CAP

<u>Source Name</u>	<u>Year</u>	<u>lb/hr</u>	<u>TPY</u>
Fired Units, 121	1998 (Final)	474	1925

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CO EMISSION CAP

<u>Source Name</u>	<u>Year</u>	<u>lb/hr</u>	<u>TPY</u>
Fired Units, 121	1998 (Final)	1190	5053

PM EMISSION CAP

<u>Source Name</u>	<u>Year</u>	<u>lb/hr</u>	<u>TPY</u>
Fired Units, 121	1998 (Final)	223.3	966.6

H₂S EMISSION CAP

<u>Source Name</u>	<u>Year</u>	<u>lb/hr</u>	<u>TPY</u>
121, Fugitive (4)	1998 (Final)	3.1	13.6

BENZENE EMISSION CAP

<u>Source Name</u>	<u>Year</u>	<u>lb/hr</u>	<u>TPY</u>
121, Fugitive (4)	1998 (Final)	27.3	12.2
	1999	27.3	12.2
	2000	6.2	11.9

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AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)			
Name (3)	lb/hr	TPY		
168	Oleflex Scrubber	HCl	0.06	0.28
		Cl ₂	0.01	0.04
		H ₂ SO 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
158	Ground Flare	Emergency Use Only		
135	Acid Gas Flare	Emergency Use Only		

(1) Emission point identification - either specific equipment designation or emission point number 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 General Rule 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - particulate matter

CO - carbon monoxide

H₂S - hydrogen sulfide

(4) Fugitive emissions are an estimate only and should not be considered

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AIR CONTAMINANTS DATA

Emission * _____	Source	Air Contaminant	<u>Emission Rates</u>
Point No. (1)	Name (2)		
Name (3)	lb/hr	TPY	

as a maximum allowable emission rate.

Dated_____

ATTACHMENT 1

Permit Nos. 38754 and PSD-TX-858M9

Permit Emission Points by Type

Category:	Fired Units	<u>EPN</u>	<u>Description</u>
Preheater		1	Crude Heater
		74	Vacuum Unit Heater
		114	Desalter Heater
		115	HDS Charge Heaters
		116	HDS Heavy Oil
Heater		117	Alky Fract Reboiler
		118	Hydrogen Reformer
Heater		119	Sulften Heater
		120	Butamer Heater
		131	Crude Preflash Heater
		132	Crude Stabilizer
		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
		49H05	49H05
		49HDIC6	49HDIC6
		02H02	Vacuum PF Heater

	126	Main Flare	
	127	MTBE Flare	
Combustor	124	API	Separator
combustor	TRUCKCOMB	Truck	Loading

Category: Tanks

	<u>EPN</u>	<u>Description</u>
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
14		Tank No. 106
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
38		Tank No. 107
46		Tank No. 137
48		Tank No. 139
TK-51		Tank No. 51
52		Tank No. 5
53		Tank No. 6
54		Tank No. 7
55		Tank No. 8
56		Tank No. 10
57		Tank No. 11
58		Tank No. 12
59		Tank No. 13
60		Tank No. 14
61		Tank No. 15
63		Tank No. 149
64		Tank No. 150
65		Tank No. 1
66		Tank No. 2

67	Tank No. 3
68	Tank No. 4
69	Tank No. 9
70	Tank No. 16
71	Tank No. 17
72	Tank No. 18
81	Tank No. 152
82	Tank No. 153
83	Tank No. 154
84	Tank No. 52
85	Tank No. 53
86	Tank No. 55
87	Tank No. 56
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-113	Tank No. 113
TK-114	Tank No. 114
129	Tank No. 156
140	Tank No. 161
141	Tank No. 54
142	Tank No. 111
143	Tank No. 151
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
176	Tank No. 163
177	Tank No. 164

Category: 121

EPN

Description

121

FCC

Scrubber/SRU

Incinerator

Category: Fugitive

	<u>EPN</u> Description
1F	Crude Unit
2F	Vacuum Unit
4F	LEU
11F	Desalter Unit
12F	HDS Unit
13F	SMR
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

Category: Loading

	<u>EPN</u> Description
VRU	Marine loading VRU
31	Barge Loading
SHIP2	Ship Dock No. 2
SHIP3	Ship Dock No. 3
TRUCKFUG	Truck Loading

Dated_____