Permit Number 48982

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 Source		Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
22BFUG	O ₂ Gas Plant Fugitives (4)	VOC	0.95	4.18
	After 12/31/2006	VOC	0.87	3.81
23BC201	Atomospheric Tower Furnace		14.28 14.28 1.93 9.52 2.66	62.55 62.55 8.43 20.85 11.65
23CWT7	No. 7 Cooling Tower	VOC	0.47	2.08
23FUG	Crude Unit Fugitives (4)	VOC	12.27	53.75
	After 12/31/2006	VOC	11.14	48.78
27BA1000	AC@ Unifiner Reactor Charge Heater	NO _x CO VOC SO ₂ PM	3.04 2.55 0.17 0.83 0.23	13.31 11.18 0.73 1.10 1.01
27EA1124 Platformer Primary Heater 27BA1100		NO_x CO VOC SO_2 PM	6.54 4.86 0.32 1.57 0.44	28.63 21.28 1.39 1.80 1.93

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission</u> lb/hr	Rates * TPY**
		_		
	After 12/31/2006	NO _x	3.59	15.71
		CO VOC	6.55 0.32	28.68 1.39
		SO ₂	1.57	1.80
		PM	0.44	1.93
27EA1124	Platformer Reactor Heater	NO _x	2.94	12.88
	27BA1101	CO	2.47	10.82
		VOC	0.16	0.71
		SO₂ PM	0.80 0.22	0.92 0.98
		PIVI	0.22	0.96
27EA1124	Platformer Nos. 2 and 3	NO_x	3.96	17.35
	Reactor Heater	CO	3.29	14.43
	27BA1103	VOC	0.22	0.94
		SO_2	1.07	1.23
		PM	0.22	0.98
	After 12/31/2006	NO_x	2.38	10.41
		CO	1.98	8.66
		VOC	0.13	0.57
		SO_2	0.64	0.74
		PM	0.18	0.78
27BA1104	Platformer Stabilizer	NO_x	2.84	12.45
	Tower Reboiler	CO	2.39	10.46
		VOC	0.16	0.68
		SO_2	0.77	0.88
		PM	0.22	0.95
27BA1105	Platformer Rerun	NO_x	4.24	18.55
	Tower Reboiler	CO	4.94	21.64
		VOC	0.32	1.42
		SO_2	1.60	1.84

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
		РМ	0.22	0.95
	After 12/31/2006	NO _x CO	2.75 3.21	12.06 14.07
		VOC	0.21	0.92
		SO ₂	1.04	1.20
		PM	0.29	1.27
		L IAI	0.29	1.21
27BA1106	Platformer Pre-fract	NO_x	3.73	16.32
	Reboiler	CO	3.13	13.71
		VOC	0.20	0.90
		SO_2	1.01	1.14
		PM	0.28	1.24
27CO1	Compressor Engine No. 1	NO_x	15.68	68.69
	Platformer	CO	5.50	24.11
		VOC	0.18	0.79
		SO ₂	< 0.01	0.02
		PM	0.06	0.25
27CO2	Compressor Engine No. 2	NO_x	8.60	37.68
21002	Platformer	CO	2.30	10.08
	i iddionner	VOC	0.18	0.79
		SO_2	<0.01	0.02
		PM	0.06	0.25
			0.00	0.20
27CO3	Compressor Engine No. 3	NO_x	8.73	38.22
	Platformer	CO	10.31	45.17
		VOC	0.18	0.79
		SO_2	< 0.01	0.02
		PM	0.06	0.25
27CO4	Compressor Engine No. 4	NO_x	8.79	38.49
	Platformer	CO	3.79	16.60
		VOC	0.18	0.79
		SO ₂	<0.01	0.02
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Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
		PM	0.06	0.25
27CWT2 27AFUG	No. 2 Cooling Tower AC@ Unifiner Fugitives (4)	VOC VOC	0.66 1.07	2.87 4.68
	After 12/31/2006	VOC	1.04	4.54
27FUG	Platformer Fugitives (4)	VOC	2.58	11.31
	After 12/31/2006	VOC	2.41	10.58
28BA1200	AA@ Unifiner Reactor Charge	NO _x CO VOC SO ₂ PM	2.75 2.31 0.15 0.75 0.21	12.02 10.10 0.66 0.88 0.91
28FUG	AA@ Unifiner Fugitives (4)	VOC	0.74	3.24
	After 12/31/2006	VOC	0.69	3.03
29BA1300	AB@ Unifiner Reactor Charge Heater	NO _x CO VOC SO ₂ PM	5.05 4.12 0.27 1.33 0.37	22.11 18.04 1.18 1.53 1.63
	After 12/31/2006	NO_x CO VOC SO_2 PM	3.03 2.47 0.16 0.80 0.22	13.27 10.82 0.71 0.92 0.98
29FUG	AB@ Unifiner Fugitives (4)	VOC	0.89	3.89

Emission	Source	Air Contaminant	Emission Rates *		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**	
	After 12/31/2006	VOC	0.82	3.57	
39CWT8	No. 8 Cooling Tower	VOC	0.21	0.92	
41BA101	AD@ Unifiner Reactor Charge Heater	NO _x CO VOC SO ₂ PM	1.96 1.65 0.11 0.53 0.15	8.59 7.21 0.47 0.61 0.65	
41BA102	AD@ Unifiner Rerun Tower Reboiler	NO_x CO VOC SO_2 PM	2.65 2.22 0.15 0.72 0.20	11.59 9.74 0.64 0.79 0.88	
41CO1	Compressor Engine No. 1 AD@ Unifiner	NO _x CO VOC SO ₂ PM	3.81 5.27 0.12 <0.01 0.04	16.70 23.09 0.53 0.01 0.17	
41CO2	Compressor Engine No. 2 AD@ Unifiner	NOx CO VOC SO ₂ PM	5.29 13.63 0.12 <0.01 0.04	23.16 59.69 0.53 0.01 0.17	
41FUG	AD@ Unifiner Fugitives (4)	VOC	2.12	9.28	
	After 12/31/2006	VOC	1.87	8.20	
44CWT9	No. 9 Cooling Tower	VOC	0.32	1.38	
44FB3002 Project No. 227483	ROSE Flush Oil Tank	VOC	<0.01	<0.01	

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source A	Air Contaminant Name (3)	<u>Emissio</u> lb/hr	ion Rates * TPY**	
1 OIIIt NO. (1)	Name (2)	Name (o)	10/111		
44AFUG	Sats Gas Fugitives (4) After 12/31/2006	VOC VOC	1.39 1.29	6.09 5.65	
47AD5401	API Separator Diversion Sump	VOC	<0.01	0.04	
	After 12/31/2005	VOC	<0.01	<0.01	
47AD5402	API Oil Pit	VOC	2.00	0.14	
47AD5403	Floc Pit	VOC	4.42	19.35	
	After 12/31/2005	VOC	<0.01	<0.01	
47AD5405	API Muck Pit	VOC	2.00	0.18	
47AD5407	Lift Station	VOC	0.03	0.12	
	After 12/31/2005	VOC	0.04	0.19	
47AD5409	DAF Unit	VOC	2.87	12.59	
	After 12/31/2005	VOC	5.51	24.15	
47FA5	Equalization Tank	VOC	<0.01	<0.01	
47FB323	API Separator Recovered Oil Tank	VOC	14.19	1.60	
47GF5401	API Separator	VOC	0.14	0.62	
47FUG	Wastewater Treater Fugitives ((4) VOC	0.89	3.92	
	After 12/31/2006	VOC	0.70	3.05	

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Emission	Source	Air Contaminant		Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**	
81BA25	Boilerhouse Hot Oil Heater	NO _x CO VOC SO ₂ PM	1.96 1.65 0.11 0.53 0.15	8.59 7.21 0.47 0.61 0.65	
81BF12	Boiler No. 12 (prior to 12/31/06)	NO _x CO VOC SO ₂ PM	8.93 0.06 0.35 1.73 0.48	39.10 0.26 1.54 1.97 2.12	
81BF12	Boiler No. 12 (May-June 2007) (5)	NO _x CO VOC SO ₂ PM	8.99 0.06 0.35 1.80 0.48	1.51 0.01 0.06 0.30 0.08	
81BF14	Boiler No. 14	NO_x CO VOC SO_2 PM	9.20 0.06 0.35 1.73 0.48	40.30 0.26 1.54 1.97 2.12	
81BF15	Boiler No. 15	NO_x CO VOC SO_2 PM	1.82 0.06 0.35 1.73 0.48	47.39 0.26 1.54 1.97 2.12	
81BF16 Project No. 227483	Boiler No. 16	NO_x CO VOC SO_2 PM	9.47 0.06 0.35 1.73 0.48	41.47 0.26 1.54 1.97 2.12	

Emission	Source	Air Contaminant	Emission Rates *		
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**	
81BF7	Boiler No. 7	NO _x CO VOC SO ₂ PM	9.05 0.10 0.62 3.07 0.86	39.64 0.42 2.72 3.50 3.75	
81FUG	Boilerhouse Fugitives (4)	VOC	0.50	2.21	
	After 12/31/2006	VOC	0.48	2.11	
9040LOAD	No. 4 Dock	VOC	817.69	17.82	
	After 12/31/2006	VOC	4.40	0.01	
9055LOAD	Harris Dock (No. 5 Dock)	VOC	0.07	<0.01	
9058LOAD	AA@ Pump Rail Loading	VOC	<0.01	<0.01	
9059LOAD	B. B. Rack-Truck Loading	VOC	<0.01	<0.01	
9060LOAD	TRAWEEK Dock	VOC	1834.89	69.34	
90CPI2001	Outfall 007 CPI Separator	VOC	<0.01	1.12	
90CPI8301	Outfall 003CPI Separator	VOC	0.27	1.18	
90FB208	No. 208 Tank	VOC	20.55	3.61	
90FB214	No. 214 Tank	VOC	103.74	13.40	
90FB221	No. 221 Tank	VOC	103.74	39.47	
90FB708	No. 708 Tank	VOC	0.71	0.02	
90FB721 Project No. 227483	No. 721 Tank	VOC	6.64	0.01	

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emissio</u> lb/hr	n Rates * TPY**
90FB735	No. 735 Tank	VOC	0.12	0.37
90AFUG	Crude Tank Farm Fugitives (4) VOC	2.00	8.77
	After 12/31/2006	VOC	1.61	7.06
90BFUG	16-Acre Tank Farm Fugitives	(4) VOC	0.65	2.86
	After 12/31/2006	VOC	0.50	2.18
90CFUG	Refrigerated Storage Fugitives	s (4)	VOC 6.39	1.46
	After 12/31/2006	VOC	1.31	5.73
90FUG	AA@ Tank Farm Fugitives (4)	VOC	11.24	49.22
	After 12/31/2006	VOC	10.16	44.51
9157LOAD	AB@ Pump Railcar Rack	VOC	5.16	0.07
9160LOAD	AB@ Pump Truck Rack	VOC	5.16	0.09
91CPI0301	300-Tank Farm CPI Separator	VOC	0.14	0.61
91CPI0401	400-Tank Farm CPI Separator	VOC	0.08	0.35
91CPI901	900-Tank Farm CPI Separator	VOC	0.14	0.61
91FB312 91FB335	No. 312 Tank No. 335 Tank	VOC VOC	1.33 0.21	0.06 0.02
91FB348	No. 348 Tank	VOC	5.16	0.35
91FB349 Project No. 227483	No. 349 Tank	VOC	5.16	0.35

Emission	Source	Air Contaminant	<u>Emission</u>	Rates *
Point No. (1)	Name (2)	Name <u>(</u> 3)	lb/hr	TPY**
91FB356	No. 356 Tank	VOC	5.88	0.59
91FB368	No. 368 Tank	VOC	19.65	0.19
91FB401	No. 401 Tank	VOC	1.37	4.21
91FB406	No. 406 Tank	VOC	78.12	3.21
91FB407	No. 407 Tank	VOC	40.96	1.34
91FB409	No. 409 Tank	VOC	26.83	5.99
91FB414	No. 414 Tank	VOC	0.88	1.54
91FB420	No. 420 Tank	VOC	1.06	2.08
91FB421	No. 421 Tank	VOC	78.12	1.30
91FB422	No. 422 Tank	VOC	0.84	2.67
91FB423	No. 423 Tank	VOC	0.70	0.14
91FB914	No. 914 Tank	VOC	3.85	6.07

	After 12/312/2005	VOC	3.55	3.24
91AFUG	400-Group Tank Farm Fugitives	(4)	VOC 1.40	0.32
	After 12/31/2006	VOC	0.30	1.29
91BFUG	900-Group Tank Farm Fugitives (4)	VOC	2.10	9.21
	After 12/31/2006	VOC	1.84	8.06
91FUG	300-Group Tank Farm Fugitives (4)	VOC	0.78	3.43
	After 12/31/2006	VOC	0.73	3.21

- (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

CO - carbon monoxide

SO₂ - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including PM₁₀.

PM₁₀ - 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.

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Boiler No. 12 is authorized to be returned to service and operated for a period not to exceed 336 hours during May and June 2007.

*	Emission rat	es are based	on and the f	facilities are	limited b	y the	following	maximum	operating
	schedule:								
	Hrs/day _	Days/week	Weeks/y	ear or <u>8,76</u>	<u>60</u> Hrs/ye	ar			

^{**} Compliance with annual emission limits is based on a rolling 12-month period.

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Dated February 17, 2015