

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 4449

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

Emission Point No. (1)	Source		Air Contaminant		<u>Emission Rates *</u>	
	Name (2)	Name (3)	lb/hr	TPY		
100F		Fugitives (4) (6)		VOC	7.91	34.65
100F		Fugitives (4)		VOC	8.99	36.23
100V30		Tank 30 (6)		VOC	3.09	0.41
100V30		Tank 30		VOC	5.55	0.65
100V34		Tank 34 (6)		VOC	3.09	0.41
100V34		Tank 34		VOC	5.55	0.65
100V35		Tank 35 (6)		VOC	3.09	0.41
100V35		Tank 35		VOC	5.55	0.65
251AV866		Tank 866 (6)		VOC	0.17	0.31
251AV866		Tank 866		VOC	0.21	0.43
251AV994		Tank 994 (6)		VOC	0.08	0.17
251AV994		Tank 994		VOC	0.11	0.22
251AV995		Tank 995 (6)		VOC	0.08	0.17
251AV995		Tank 995		VOC	0.11	0.22
251AV37		Tank 37 (6)		VOC	0.12	0.13
251AV37		Tank 37		VOC	0.12	0.19
251AV119		Tank 119		VOC	0.28	0.012

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
100V23	Tank 23	VOC	0.04	<0.01
100V917	Tank 917	VOC	0.01	<0.01
251DTL	Truck Loading (5)	VOC	28.78	2.02
251DTL	Truck Loading (6)	VOC	0.04	1.10
251DTL	Truck Loading (9)	VOC	0.21	1.66
251DTC	Railcar Loading (5)	VOC	53.82	6.91
251DTC	Railcar Washing (5) (7)	VOC	383.00	162.35
251DTC	Railcar Loading (6)	VOC	0.27	2.47
251DTC	Railcar Loading (9)	VOC	1.00	3.63
251DBL	Barge Loading (5)	VOC	39.60	2.31
251DBL	Barge Loading (4)	VOC	0.84	0.06
251DM1205	Shipping Flare (5) (8)	VOC	16.58	7.79
		NOx	3.58	3.06
		SO2	<0.10	<0.10
		CO	30.7	26.22
251DM1205	Shipping Flare (6) (8)	VOC	32.07	15.36
		NOx	3.58	6.61
		SO2	<0.10	<0.10
		CO	30.7	56.61
251DM1205	Shipping Flare (8)	VOC	36.32	17.08
		NOx	2.28	7.40
		SO2	<0.10	<0.10
		CO	19.6	63.45
251DM2224	Barge Incinerator (8)	VOC	0.70	0.12
		NOx	5.00	8.78
		SO2	<0.01	<0.01
		CO	0.40	0.88
		PM	<0.01	<0.01

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
303M1239	Plant Flare (5)		(Nonroutine Service Only)	
303M1239	Plant Flare (6)		(Nonroutine Service Only)	
303M1239	Plant Flare	VOC	0.47	1.98
		NOx	0.03	0.14
		SO2	<0.01	<0.01
		CO	0.17	0.76
AREA 7	API Separators	VOC	3.36	14.70
301M150	Cooling Tower (4)	VOC	0.10	0.43
100V713/4	Rhodium Recovery (6)	VOC	1.11	4.36
304M375	Reformer	VOC	0.29	1.26
		NOx	112.96	494.76
		SO2	0.12	0.54
		CO	8.22	35.98
		PM	1.03	4.50
304M490	Reformer	VOC	0.60	2.65
		NOx	237.67	1,040.98
		SO2	0.26	1.14
		CO	17.28	75.71
		PM	2.16	9.46
304M24	Reformer	VOC	0.17	0.73
		NOx	65.77	288.07
		SO2	0.072	0.31
		CO	4.78	20.95
		PM	0.60	2.62
304V206	Tank 206	MEA	<0.01	<0.01

- (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 defined in General Rule 101.1
 NOx - total oxides of nitrogen
 SO2 - sulfur dioxide

CO - carbon monoxide
PM - particulate matter
MEA - monoethanolamine

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) These are the authorized limits until completion of the items listed in Special Provision No. 3(A), or October 15, 1994, whichever date is earlier.

Loading may be shifted between tank trucks and railcars as long as the total VOC emissions do not exceed 8.93 TPY.

- (6) These are the authorized limits until completion of the items listed in Special Provision No. 3(B). Loading may be shifted between tank trucks and railcars as long as the total VOC emissions do not exceed 3.57 TPY.
- (7) Railcar loading and railcar washing operations do not generally occur simultaneously.
- (8) These emissions represent the total emissions from the vapor combustion system.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

(9) Loading may be shifted between tank trucks and railcars as long as the total VOC emissions do not exceed 5.29 TPY.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year _____

Dated _____