

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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)		VOC	7.91	34.65
100V30		Tank 30 (5)		VOC	3.09	0.31
100V30		Tank 30		VOC	3.09	0.41
100V34		Tank 34 (5)		VOC	3.09	0.31
100V34		Tank 34		VOC	3.09	0.41
100V35		Tank 35 (5)		VOC	3.09	0.31
100V35		Tank 35		VOC	3.09	0.41
251AV866		Tank 866 (6)		VOC	19.74	13.66
251AV866		Tank 866		VOC	0.17	0.31
251AV994		Tank 994 (6)		VOC	4.53	4.20
251AV994		Tank 994		VOC	0.08	0.17
251AV994		Tank 995 (6)		VOC	4.53	4.20
251AV995		Tank 995		VOC	0.08	0.17
251AV37		Tank 37 (6)		VOC	15.15	2.74
251AV37		Tank 37		VOC	0.12	0.13
251AV119		Tank 119		VOC	0.28	0.012
100V23		Tank 23		VOC	0.04	<0.01

100V917	Tank 917	VOC	0.01	<0.01
251DTL	Truck Loading (6)	VOC	28.78	2.02

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source		Air Contaminant		Emission Rates *	
	Name (2)	Name (3)	lb/hr	TPY		
251DTL	Truck Loading			VOC	0.04	1.10
251DTC	Railcar Loading (6)			VOC	53.82	6.91
251DTC	Railcar Washing (6) (7)			VOC	383.00	162.35
251DTC	Railcar Loading			VOC	0.27	2.47
251DBL	Barge Loading (6)			VOC	39.60	2.31
251DBL	Barge Loading (4)			VOC	0.84	0.06
251DM1205	Shipping Flare (6) (8)			VOC	16.58	7.79
				NOx	3.58	3.06
				SO2	<0.10	<0.10
				CO	30.70	26.22
251DM1205	Shipping Flare (8)			VOC	32.07	15.36
				NOx	3.58	6.61
				SO2	<0.10	<0.10
				CO	30.70	56.61
251DM2224	Barge Incinerator (8)			VOC	0.70	0.07
				NOx	5.00	8.78
				SO2	<0.01	<0.01
				CO	0.40	0.88
				PM	<0.01	<0.01
303M1239	Plant Flare			(nonroutine service only)		
AREA 7	API Separators			VOC	3.36	14.70
301M150	Cooling Tower (4)			VOC	0.10	0.43
100V713/4	Rhodium Recovery			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
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Emission Point No. (1)	Source		Air Contaminant		Emission Rates *	
	Name (2)	Name (3)	lb/hr	TPY		
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 propylene recovery unit.
- (6) These are the authorized limits until completion of the project which will add a propylene recovery unit and improve control of emissions, or October 15, 1994, whichever date is earlier.
- (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 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