

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 Name (2)	Name (3)	Air Contaminant		<u>Emission Rates *</u>	
			lb/hr	TPY		
100F	Fugitives (4)			VOC	8.99	36.23
100V23	Tank 23			VOC	0.04	<0.01
100V30	Tank 30			VOC	5.55	0.65
100V34	Tank 34			VOC	5.55	0.65
100V35	Tank 35			VOC	5.55	0.65
100V917	Tank 917			VOC	0.01	<0.01
251AV37	Tank 37			VOC	0.25	0.45
251AV119	Tank 119			VOC	0.28	0.012
251AV866	Tank 866			VOC	0.30	0.79
251AV994	Tank 994			VOC	0.11	0.22
251AV995	Tank 995			VOC	0.11	0.22
251DM1205	Shipping Flare (5) (6)			VOC	44.43	16.29
				NO _x	2.28	7.40
				SO ₂	<0.10	<0.10
				CO	19.60	63.45
251DM2224	Barge Incinerator (6)			VOC	0.82	0.14
				NO _x	5.00	8.78
				SO ₂	<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
251DBL	Barge Area	VOC	<0.01	<0.01
251DTC	Railcar Area (7)	VOC	29.60	2.13
251DTC	Railcar Area	VOC	0.32	0.01
251DTCF	RR Area Fugitives (4)	VOC	0.52	1.20
251DTL	Truck Area (7)	VOC	9.65	1.51
251DTL	Truck Area	VOC	0.32	0.01
301M150	Cooling Tower (4)	VOC	0.10	0.43
303M1239	Ethylene Flare (8)	VOC	0.47	1.98
		NO _x	0.03	0.14
		SO ₂	<0.01	<0.01
		CO	0.17	0.76
304M24	Reformer	VOC	0.17	0.73
		NO _x	65.77	288.07
		SO ₂	0.072	0.31
		CO	4.78	20.95
		PM	0.60	2.62
304M375	Reformer	VOC	0.29	1.26
		NO _x	112.96	494.76
		SO ₂	0.12	0.54
		CO	8.22	35.98
		PM	1.03	4.50
304M490	Reformer	VOC	0.60	2.65
		NO _x	237.67	1,040.98
		SO ₂	0.26	1.14
		CO	17.28	75.71
		PM	2.16	9.46
304V206	Tank 206	MEA	<0.01	<0.01
AREA 7	API Separators (9)	VOC	3.36	14.70
AREA 7	Wastewater Treatment Plant (10)	VOC	1.13	1.59

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
308M2309	Sludge Dryer (10)	VOC	0.04	0.04
		NO _x	1.77	2.25
		SO ₂	0.01	0.01
		CO	0.44	0.56
		PM	0.17	0.22

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- (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
NO_x - 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) Railcar loading and cleaning operations do not occur simultaneously.
- (6) These emissions represent the total emissions from the vapor combustion system.
- (7) These interim limits allow the use of stingers to determine liquid level when loading product into railcars or truck tanks. The use of stingers shall be discontinued not later than January 1, 1996. Acetate ester products shall not be loaded into railcars or truck tanks that use stingers.
- (8) Flare emissions attributable to this facility. (Refer to Permit No. 2447 for total emission rate.)
- (9) Emissions prior to completion of wastewater treatment project.
- (10) Emissions after completion of wastewater treatment project.

* 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 _____