

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 436

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	
E09A002 through E09A021	Furnace Numbers 1 through 20 (5)		NO _x	10.3	36.8
			CO	25.8	92.0
			SO ₂	1.2	3.5
			VOC	0.7	2.3
			PM	0.5	1.9
E09A032	No. 3 Olefins Flare		NO _x	482.2	4.4
			CO	2457.2	22.4
			VOC	3804.0	45.4
E09A034	Methanol Tank		Methanol	3.0	0.3
E09A088	Synasol Tank		Ethanol	1.0	0.1
E09A089	Methanol/Synasol		Methanol	0.3	0.1
			Ethanol	<0.1	<0.1
E09A101	Depropanizer Additive		VOC	0.9	<0.1
F09A001	Fugitives (4)		VOC	85.9	376.1
E09A048	Safety Valve KO Pot		VOC	<0.1	0.4
E09A111	Cooling Tower		VOC	4.1	17.9
E09A0499	Truck Loading and Unloading Methanol		Methanol	5.5	<0.1
E09A099	Truck Loading and Unloading Acetone		Acetone	18.0	<0.1

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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) NO_x - total oxides of nitrogen
PM - particulate matter
CO - carbon monoxide
SO₂ - sulfur dioxide
VOC - volatile organic compounds as defined in General Rules 101.1.
 - (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
 - (5) These emissions rates are applicable to each individual furnace. Cumulative emissions from Furnaces 1 through 20 can be obtained by multiplying the individual emission rates by a factor of 20. Short-term emission rates are based upon an 85.9 MMBtu/hr heat input. Annual emission rates are based upon a 77.265 MMBtu/hr heat input and 90.6 percent on-stream factor (7,937 hours per calendar year).
- * Except when noted, 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 8,760

Dated _____