

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 7694 METHANOL PLANT

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)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lbs/hr	TPY
59A	E38 Vent	VOC	1.66	0.76
59B	E39 Vent	VOC	17.69	0.71
59C	E40 Vent	VOC	14.78	1.32
59D	E41 Vent	VOC	14.78	0.76
59E	E42 Vent	VOC	14.78	1.32
59F	E43 Vent	VOC	14.89	2.31
64	Loading Rack	VOC	4.10	2.82
53	Compressor Seal Leakage Collection Pot	CO	36.0	151.2
36, 37, 38	Desulfurizers	VOC	<0.01	<0.01
32, 33	Reformer F-101 Heater	SO ₂	2.5	1.5
16	East Flare (4)	NO _x	2.00	5.84
		CO	17.14	50.06
		VOC	10.96	31.97
101	Ammonia Recovery System Vent	CO	0.89	3.89
		NH ₃	0.30	1.31

- (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
CO - carbon monoxide
SO₂ - sulfur dioxide
NO_x - total oxides of nitrogen
NH₃ - ammonia
- (4) Owned and operated by Occidental Chemical Company

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

Hrs/day____Days/week____Weeks/year____or Hrs/year 8,760

Revised_____

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 7694 MTBE PLANT

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)	Air Contaminant Name (3)	lb/hr	<u>Emission Rates *</u> TPY	
201	Regenerator Exhaust	NO _x	16.59	72.64	
		CO	6.06	26.53	
		SO ₂	19.85	16.25	
		VOC	6.27	27.48	
		PM ₁₀	0.32	1.41	
202	Steam Boiler	NO _x	13.20	57.82	
		CO	4.95	21.68	
		SO ₂	6.60	7.56	
		VOC	0.55	2.43	
		PM ₁₀	0.99	4.33	
203	Steam Boiler	NO _x	13.20	57.82	
		CO	4.95	21.68	
		SO ₂	6.60	7.56	
		VOC	0.55	2.43	
		PM ₁₀	0.99	4.33	
204	Steam Boiler	NO _x	13.20	57.82	
		CO	4.95	21.68	
		SO ₂	6.60	7.56	
		VOC	0.55	2.43	
		PM ₁₀	0.99	4.33	
205	Waste Gas Flare	NO _x	0.64	1.05	
		CO	4.59	7.56	
		VOC	8.59	1.32	
206	Emergency Generator	NO _x	4.14	0.43	
		CO	0.89	0.09	

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SO ₂	0.28	0.03
VOC	0.39	0.04
PM ₁₀	0.30	0.03

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
207	Fire Water Engine	NO _x	2.10	0.05
		CO	0.43	0.01
		SO ₂	0.13	0.003
		VOC	0.19	0.005
		PM ₁₀	0.14	0.004
208	Fire Water Engine	NO _x	2.10	0.05
		CO	0.43	0.01
		SO ₂	0.13	0.003
		VOC	0.19	0.005
		PM ₁₀	0.14	0.004
210	MTBE Storage Tank	MTBE	2.43	3.76
211	MTBE Storage Tank	MTBE	2.43	3.76
212	MTBE Storage Tank	MTBE	2.43	3.76
213	Diesel Storage Tank	Diesel	2.89	0.02
214	Disulfide Oil Tank	VOC	0.13	0.02
215	Slop Oil Tank	VOC	1.37	0.11
220	Cooling Tower (4)	VOC	2.52	11.04
221	CPI Separator	VOC	4.20	0.54
222	Wastewater Treatment	VOC	0.15	0.13
223	Chlorine Fugitives (4)	Chlorine	0.01	0.04

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224	Merox Unit Fugitives (4)	VOC	0.38	1.66
225	Dehydrogenation Fugitives (4)	VOC	2.92	12.79
226	MTBE Facilities Fugitives (4)	VOC	1.41	6.18

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
227	PSA Facilities Fugitives (4)	VOC	0.14	0.61
228	Tank Area Fugitives (4)	VOC	0.48	2.10
229	Wastewater Treatment Area Fugitives (4)	VOC	0.05	0.22

- (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) PM₁₀ - particulate matter less than 10 microns
VOC - volatile organic compounds as defined in General Rule 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
MTBE - methyl-tert-butyl-ether
- (4) Fugitive and cooling tower emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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

Hrs/day____Days/week____Weeks/year____or Hrs/year 8,760

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