

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 20289

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)	Emission Rates*		
			#/hr	TPY	
002	Process Heater	CO	2.41	8.97	
		NO _x	4.82	17.94	
		PM ₁₀	0.82	3.07	
		SO ₂	1.92	0.90	
		VOC	0.17	0.62	
003	Process Heater	CO	2.41	8.97	
		NO _x	4.82	17.94	
		PM ₁₀	0.82	3.07	
		SO ₂	1.92	0.90	
		VOC	0.17	0.62	
004	Process Heater	CO	3.10	11.53	
		NO _x	6.19	23.06	
		PM ₁₀	1.06	3.95	
		SO ₂	2.56	1.19	
		VOC	0.22	0.80	
020B	Butamer Unit Fugitives (4)	VOC	6.56	28.75	
021	Cooling Tower (4)	VOC	0.13	0.55	
101	Oleflex Heater	CO	11.77	46.88	
		NO _x	17.66	70.33	
		PM ₁₀	1.43	5.68	
		SO ₂	0.170	0.75	
		VOC	0.40	1.75	
102	Steam Boiler	CO	8.76	26.17	
		NO _x	23.36	69.77	
		PM ₁₀	1.41	4.23	
		SO ₂	4.88	2.42	
		VOC	0.40	1.18	

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AIR CONTAMINANTS DATA				
Emission	Source	Air Contaminant	<u>Emission Rates*</u>	
Point No. (1)	Name (2)	Name (3)	#/hr	TPY
103	Steam Boiler	CO	8.76	26.17
		NO _x	23.36	69.77
		PM ₁₀	1.41	4.23
		SO ₂	4.88	2.42
		VOC	0.40	1.18
104A	Flare 1	CO	3.36	4.11
		NO _x	1.48	1.15
		PM ₁₀	0.03	0.05
		SO ₂	<0.01	<0.01
		VOC	11.09	7.44
104B	Flare 2	CO	0.34	1.49
		NO _x	0.07	0.29
		PM ₁₀	0.01	0.02
		SO ₂	<0.01	<0.01
		VOC	0.01	0.02
105	Thermal Oxidizing Flare	CO	24.91	11.75
		Isobutylene	34.10	0.34
		MTBE	32.73	11.82
		NO _x	6.34	3.82
		PM ₁₀	0.29	0.18
		SO ₂	0.01	0.01
		VOC	0.03	0.03
106	Storage Tank	MEOH	0.84	0.45
107	Storage Tank	MTBE	1.73	3.44
108	Storage Tank	MTBE	1.73	3.44
109	Storage Tank	MTBE	1.25	1.87
111	Storage Tank	VOC	0.06	0.09
112	CCR Vent Gas Scrubber	CO	0.09	0.39

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates*</u>	
			#/hr	TPY
		Cl ₂	0.04	0.16
		HCl	0.54	2.35
		NO _x	0.04	0.18
		SO ₂	1.13	4.94
113	Cooling Tower (4)	VOC	1.05	4.60
114	CPI Separator	VOC	1.50	0.58
115	Oleflex Unit Area Fugitives (4)	VOC	2.01	8.77
116	MTBE Unit Area Fugitives (4)	VOC	2.81	12.36
117	OSBL Tank Area Fugitives (4)	VOC	0.43	1.93
118	OSBL Boiler Area Fugitives (4)	VOC	0.26	1.14
119	Wastewater Treatment Area Fugitives (4)	VOC	0.43	1.58
120	PSA Unit Fugitives (4)	VOC	0.24	1.05
121	Diesel Fired Generator	CO	0.90	0.09
	NO _x	4.15	0.43	
		PM ₁₀	0.30	0.03
		SO ₂	0.28	0.03
		VOC	0.33	0.03
122	CCR Chlorine Fugitives (4)	Cl ₂	0.01	0.06
123	Fire Water Engine	CO	0.43	0.05
	NO _x	2.01	0.21	
		PM ₁₀	0.14	0.02

			SO ₂	0.13	0.01
			VOC	0.19	0.02
124	Diesel Storage Tank	VOC	0.06	<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) Cl₂ - chlorine
CO - carbon monoxide
HCl - hydrogen chloride
MEOH - methanol
MTBE - methyl-tert-butyl-ether

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- NO_x - total oxides of nitrogen
PM₁₀ - particulate matter less than 10 microns
SO₂ - sulfur dioxide
VOC - volatile organic compounds as defined in General Rule 101.1
- (4) Fugitive 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

Dated _____