

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 20160

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 *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
POFLARE	PO Ground Flare	NO _x	7.47	6.54
		CO	53.9	47.2
		VOC	125.4	42.6
		SO ₂	1.41	0.82
STEAMGEN	Steam Generators No. 1 and 2 125.2	NO _x		28.6
		CO	28.6	38.2
		VOC	2.87	10.67
		SO ₂	3.17	7.27
		TSP/PM ₁₀	3.22	14.11
PODUST	Catalyst Prep Dust Filter	TSP/PM ₁₀	0.002	0.0004
POCATNH3	Catalyst Prep Scrubber	NH ₃	0.004	0.0007
POTK001	Catalyst Solution Tank	VOC	0.05	0.002
POTK003	Catalyst Solution Tank	VOC	0.05	0.002
POTK007	TBA Day Tank	VOC	0.62	3.36
POTK008	Dry TBA Tank	VOC	1.10	4.10
POTK009	I-Octane Tank	VOC	0.21	0.40
POPERFUG	Peroxidation Unit (4)	VOC	2.49	10.90
POEPOFUG	Epoxidation Unit (4)	VOC	2.53	11.10

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr TPY</u>	
POPURFUG	PO Purification Unit (4)	VOC	1.48	6.50
POMTFUG	MTBE One-Step Unit (4)	VOC	1.79	7.80
POCPFUG	Catalyst Prep Area (4)	VOC	0.31	1.40
POTRAFUG	TBA Removal Area (4)	VOC	0.98	4.30
POCRFUG	Catalyst Recovery (4)	VOC	0.37	1.60
POPRFUG	Propylene Refrigeration Area (4) 1.20	VOC	0.27	
MTBFUG-2	MTBE Synth. Unit (4)	VOC	0.73	3.20
Wwsfug	Wastewater Stripper (4)	VOC	0.28	1.20
PRABLFUG	Propane Bullet Area (4)	VOC	0.05	0.20
POLODFUG	Railcar/Tankwagon Loading (4) 1.10	VOC	0.24	
RSELDSFUG	Barge Loading (4)	VOC	0.23	0.99
TKEFUG	East OSBL Tanks Fugitives (4) 2.60	VOC	0.58	
SGFUG	Steam Generators Area Fugitives (4)	VOC	0.28	1.23
CTFUG	Cooling Tower (4)	NH ₃ VOC	0.08 5.8	0.33 23.57
RSELDFLR	Dock Flare	CO NO _x SO ₂	5.11 0.71 0.04	0.92 0.12 NEG

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		VOC	12.40	3.90
PODOWSUMP	Wastewater Sump/Pond	NH ₃	0.04	0.01
		VOC	2.48	0.74
WWTPFUG	Wastewater Treatment Fugitives (4)	VOC		4.66
	20.40			

- (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
TSP - total suspended particulate
VOC - volatile organic compounds as defined in General Rule 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
NH₃ - ammonia
- (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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Dated _____