

# 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 Point No. (1)	Source		Air Contaminant		Emission Rates *	
	Name (2)	Name (3)	lb/hr	TPY		
POFLARE	PO GROUND FLARE		NOx		2.96	6.89
			CO		15.1	35.1
			VOC		21.3	16.4
			SO2		1.41	0.79
STEAMGEN	STEAM GENERATOR NO. 1 and 2		NOx		28.6	125.2
			CO		8.4	36.8
			VOC		2.87	10.67
			SO2		3.17	7.27
			TSP/PM10		3.22	14.11
PODUST	CATALYST PREP DUST FILTER		TSP/PM10		0.002	0.0004
POCATNH3	CATALYST PREP SCRUBBER		NH3		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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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	.31	1.40

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Emission Point No. (1)	Source Name (2)	Name (3)	lb/hr	Air Contaminant TPY	<u>Emission Rates *</u>	
POTRAFUG	TBA REMOVAL AREA (4)			VOC	.98	4.30
POCRFUG	CATALYST RECOVERY (4)			VOC	.37	1.60
POPRFUG	PROPYLENE REFRIG. AREA (4)			VOC	.27	1.20
MTBFUG-2	MTBE SYNTH. UNIT (4)			VOC	.73	3.20
WWSFUG	WASTEWATER STRIPPER (4)			VOC	.28	1.20
PRABLFUG	PROPANE BULLET AREA (4)			VOC	.05	.20
POLODFUG	RAILCAR/TANKWAGON (4) LOADING			VOC	.24	1.10
RSELDSFUG	BARGE LOADING (4)			VOC	0.23	0.99
TKEFUG	EAST OSBL TANKS FUG (4)			VOC	.58	2.60
SGFUG	STEAM GEN. AREA (4)			VOC	.28	1.23
CTFUG	COOLING TOWER (4)			NH3 (4)	0.08	0.33
				VOC (4)	5.8	23.57
RSELDFLR	DOCK FLARE			CO	5.11	0.92
				NOx	0.71	0.12
				SO2	0.04	NEG
				VOC	12.40	3.90

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PODOWSUMP	WASTEWATER SUMP/POND	NH3 VOC	0.04 2.48	0.01 0.74
WWTPFUG	WASTEWATER TREATMENT FUG (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)
 

PM	- particulate matter	
PM10	- particulate matter less than 10 microns	
TSP	- total suspended particulate	
VOC	- volatile organic compounds as defined in General Rule	101.1
NOx	- total oxides of nitrogen	
SO2	- sulfur dioxide	
CO	- carbon monoxide	
NH3	- ammonia	
EG	- ethylene glycol	
TBA	- tertiary butyl alcohol	
ISO	- iso-octane	
Alcohol	- C6 through C20 fatty linear alcohols	
Surfactants	- alkylphenoethoxylate or alcoholethoxylate	
- (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

Dated \_\_\_\_\_