

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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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 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>	
			lb/hr	TPY
PK-1	Cracking Heater BA-100	VOC	0.04	0.15
		NOx	17.20	64.02
		SO2	0.11	0.40
		PM	1.03	3.85
		CO	5.80	21.66
PK-2	Cracking Heater BA-101	VOC	0.04	0.15
		NOx	17.20	64.02
		SO2	0.11	0.40
		PM	1.03	3.85
		CO	5.80	21.66
PK-3	Cracking Heater BA-102	VOC	0.04	0.15
		NOx	17.20	64.02
		SO2	0.11	0.40
		PM	1.03	3.85
		CO	5.80	21.66
PK-4	Cracking Heater BA-103	VOC	0.04	0.15
		NOx	17.20	64.02
		SO2	0.11	0.40
		PM	1.03	3.85
		CO	5.80	21.66
PK-5	Cracking Heater BA-104	VOC	0.04	0.15
		NOx	17.20	64.02
		SO2	0.11	0.40
		PM	1.03	3.85
		CO	5.39	21.66
PK-6	Cracking Heater BA-105	VOC	0.04	0.15
		NOx	17.20	64.02

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SO2	0.11	0.40
PM	1.03	3.85
CO	5.80	21.66

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			lb/hr	TPY
PK-7	Boiler BF-701	VOC	0.56	2.25
		NOx	97.1	387.9
		SO2	0.24	0.97
		PM	2.53	10.17
		CO	24.3	88.1
PK-8	Superheater BA-111	VOC	0.28	1.1
		NOx	20.0	70.1
		SO2	0.059	0.24
		PM	0.75	2.63
		CO	3.04	12.09
PK-9	Cracking Heater BA-106	VOC	0.04	0.15
		NOx	17.20	64.02
		SO2	0.11	0.40
		PM	1.03	3.85
		CO	5.80	21.66
PK-10	Cracking Heater BA-107	VOC	0.04	0.15
		NOx	17.20	64.02
		SO2	0.11	0.40
		PM	1.03	3.85
		CO	5.80	21.66
PK-11	Cracking Heater BA-108	VOC	0.04	0.15
		NOx	17.20	64.02
		SO2	0.11	0.40
		PM	1.03	3.85
		CO	5.80	21.66

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PK-16	Flare CB-801	VOC	7.72	33.8
		NOx	1.06	4.62
		SO2	49.3	216
		PM	0.003	0.011
		CO	6.22	27.24
PK-18	Dryer Regeneration Heater BA-202	VOC	0.04	0.17
		NOx	3.7	16.1
		SO2	0.008	0.04
		PM	0.11	0.47
		CO	0.50	2.17

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates*	
			lb/hr	TPY
PK-19	Converter Regeneration Heater BA-201	VOC	0.024	0.071
		NOx	1.2	3.6
		SO2	0.003	0.009
		PM	0.037	0.107
		CO	0.16	0.47
PK-23	Methanol Tank	VOC	0.012	0.043
PK-24	Analyzers	VOC	0.67	2.92
PK-26	Heat Recovery Stack	VOC	0.07	0.25
		NOx	25.8	98.9
		SO2	0.16	.60
		PM	1.55	5.93
		CO	8.70	35.27
PK-27	Heavy Aromatic Distillate Tank	VOC	0.05	0.2
PK-30	Backwash Carbon Bed	VOC	0.14	0.05
PK-33	Biocide Tank	VOC	0.0002	0.001

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PK-34	Dispersant Tank	VOC	0.0007	0.003
PK-35	Inhibitor Tank	VOC	0.0005	0.002
PK-36	Coke Separator Stack	PM	0.81	1.6
PK-37	Coagulant Tank	VOC	0.001	0.004
PK-38	Cooling Tower (4)	VOC	2.73	11.96
PK-39	Seal Oil Tank	VOC	0.0002	0.001
PK-41	Lube Oil Tank	VOC	0.016	0.07
PK-43	Wash Oil Tank	VOC	0.11	0.5
PK-45	Anti-Foulant Tank	VOC	0.016	0.07

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates*</u>	
			lb/hr	TPY
PK-47	Anti-Foulant Tank	VOC	0.002	0.01
PK-48	Anti-Foam Tank	VOC	0.004	0.016
PK-49	Anti-Foam Tank	VOC	0.0002	0.001
PK-50	Caustic Tank	NaOH	0.022	0.08
PK-51	Anti-Foulant Tank	VOC	0.007	0.03
PK-52	MEA Tank	VOC	0.007	0.03
PKA-8A	Light Aromatic Distillate Tank	VOC	0.34	1.49
PKA-8B	Heavy Aromatic Distillate Tank	VOC	0.32	1.39

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PKA-10B	Barge Loading	VOC	0.6	0.1
	Incinerator	NOx	0.45	1.99
		CO	0.08	0.33
PKA-10C	C4's Barge Loading	VOC	0.23	1.0
PKA-12	Railcar Unloading	VOC	0.23	1.0
PKF-F13	Fugitives (4)	VOC	24.0	105.1
PKF-F33	Benzene Recovery	VOC	0.24	1.03
	Fugitives (4)			

- (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
 NOx - total oxides of nitrogen
 SO2 - sulfur dioxide
 PM - particulate matter
 CO - carbon monoxide
 NaOH - sodium hydroxide

- (4) Fugitive and cooling tower emissions are an estimate only and should not be considered as maximum allowable emission rates.

* 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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Revised_____