

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**

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Permit Number 914

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.

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**

PK-1Cracking Heater BA-100 VOC1.17 4.58

CO 13.00 47.82
 NO_x 17.20 63.78
 SO₂ 0.13 0.50
 PM 1.10 4.29

PK-2Cracking Heater BA-101 VOC1.17 4.58

CO 13.00 47.82
 NO_x 17.20 63.78
 SO₂ 0.13 0.50
 PM 1.10 4.29

PK-3Cracking Heater BA-102 VOC1.17 4.58

CO 13.00 47.82
 NO_x 17.20 63.78
 SO₂ 0.13 0.50
 PM 1.10 4.29

PK-4Cracking Heater BA-103 VOC1.17 4.58

CO 13.00 47.82
 NO_x 17.20 63.78
 SO₂ 0.13 0.50
 PM 1.10 4.29

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PK-5	Cracking Heater BA-104	VOC	1.17	4.58	CO	13.00 47.82
				NO _x	17.20 63.78	
				SO ₂	0.13 0.50	
				PM	1.10 4.29	
PK-6	Cracking Heater BA-105	VOC	1.17	4.58	CO	13.00 47.82
				NO _x	17.20 63.78	
				SO ₂	0.13 0.50	
				PM	1.10 4.29	
PK-8	Superheater BA-111	VOC	0.32	1.42	CO	0.06 0.26
				NO _x	4.26 18.66	
				SO ₂	0.04 0.15	
				PM	0.45 1.96	
PK-9	Cracking Heater BA-106	VOC	1.17	4.58	CO	13.00 47.82
				NO _x	17.20 63.78	
				SO ₂	0.13 0.50	
				PM	1.10 4.29	
PK-10	Cracking Heater BA-107	VOC	1.17	4.58	CO	13.00 47.82
				NO _x	17.20 63.78	
				SO ₂	0.13 0.50	
				PM	1.10 4.29	
PK-11	Cracking Heater BA-108	VOC	1.17	4.58	CO	13.00 47.82
				NO _x	17.20 63.78	
				SO ₂	0.13 0.50	
				PM	1.10 4.29	
PK-14	Cracking Heater BA-99	VOC	1.23	4.81		

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		CO 13.7	50.22	
		NO _x	23.38	60.35
		SO ₂	0.13	0.52
		PM 3.13	12.07	
PK-16	Flare CB-801	VOC1124	19.53	
		CO 628	18.34	
		NO _x 157	27.21	
		SO ₂ 0.01	0.01	
PK-16M	Flare CB-801 SSM	VOC1773	11.95	
		CO 1794	11.51	
		NO _x 345	2.37	
		SO ₂ 47.59	0.12	
PK-19	Regeneration Heater BA-201	VOC 0.03	0.07	
		CO 0.39	1.14	
		NO _x 0.47	1.36	
		SO ₂ 0.01	0.01	
		PM 0.01	0.03	
PK-23	Methanol Tank	VOC2.24	0.06	
PK-24	Analyzers	VOC0.50	2.19	
PK-30	Steam Stripper Carbon Beds	VOC0.14	0.05	
PK-33	Biocide Tank	VOC 0.26	0.01	
PK-34	Dispersant Tank	VOC 0.23	0.01	
PK-35	Inhibitor Tank	VOC0.23	0.01	
PK-36	Coke Separator Stack	PM0.55	0.66	
PK-37	Coagulant Tank	VOC0.23	0.01	
PK-38	Cooling Tower	VOC3.44	15.09	
		PM 0.54	2.37	

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PK-39	Seal Tank	VOC0.03	0.01	
PK-41	Lube Oil Tank	VOC0.01	0.01	
PK-45	Anti-foulant Tank	VOC0.02	0.01	
PK-49	Red Oil Inhibitor Tank	VOC1.57	0.01	
PK-51	Anti-foulant Tank	VOC2.26	0.02	
PK-53	Dispersant Tank	VOC0.01	0.01	
PK-54	Dispersant Tank	VOC0.12	0.01	
PK-61	Storm Water Carbon Canister	VOC0.15	0.23	
PK-62	Tar Removal System	VOC0.39	0.28	
PK-63	DEHA Tank	VOC0.03	0.01	
PK-64	MOPA	VOC0.09	0.01	
PK-65	Brine Tank	VOC0.01	0.01	
PK-66	Bio-surfactant Tank	VOC1.63	0.01	
PKA-8A	LAD Tank	VOC0.80	1.27	
PKA-8B	HAD Tank	VOC0.60	0.49	
PKA-12	Railcar Loading/Unloading	VOC	0.23	1.00
PKF-F13	Fugitives (4)	VOC25.66	112.70	
PKF-F33	Fugitives (4)	VOC0.37	1.64	

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- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - NO_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - PM - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}.
 - CO - carbon monoxide
 - SO₂ - sulfur dioxide
- (4) Fugitive and cooling tower emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Hourly rates for the two modes of flares operation are not additive. Annual allowable emission rates are additive.

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

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

** Compliance with annual emission limits is based on a rolling 12-month period.

Date January 9, 2006