

EMISSION SOURCES - EMISSION CAPS AND INDIVIDUAL EMISSION LIMITATIONS

Flexible Permit Numbers 50607 and PSD-TX-1017

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.

See Attachment I for Source Name and Emission Point Number Index

VOC EMISSION CAP

Source Name	Year	Emission Rates*	
		lb/hr	TPY**
Combustion Units, Tanks, Process Vents, Loading, Flares, Fugitives (4), Wastewater, Cooling Towers	Current	355.37	1006.03
	2008 (Final)		408.58
	1284.20		

NO_x EMISSION CAP

Source Name	Year	lb/hr	TPY**
Combustion Units, Flares, Process Vents	Current	331.81	1345.46
	2008 (Final)		302.25
	1292.07		

CO EMISSION CAP

Source Name	Year	lb/hr	TPY**
Combustion Units, Flares, Process Vents	Current	515.35	1955.87
	2008 (Final)		591.59
	2262.65		

SO₂ EMISSION CAP

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Source Name	Year	lb/hr	TPY**
Combustion Units, Flares, Process Vents	Current	442.24	1743.13
	2008 (Final)	494.77	1956.20

PM₁₀ EMISSION CAP

Source Name	Year	lb/hr	TPY**
Combustion Units, Process Vents, Coker Unit	Current	58.82	243.52
	2008 (Final)	61.52	253.92

BENZENE EMISSION CAP

Source Name	Year	lb/hr	TPY**
Combustion Units, Tanks, 34.74 Loading, Flares, Fugitives, 16.28 39.63 Wastewater, Cooling Towers	Current		14.57
	2008 (Final)		

H₂S EMISSION CAP

Source Name	Year	lb/hr	TPY**
	Current	4.79	16.41
	2008 (Final)	6.37	21.57

INDIVIDUAL EMISSION LIMITATIONS

EPN	Source Name	Year	Pollutant	lb/hr	TPY**
F-028	DHT/ASU	2008 (final)	NH ₃		<0.01 <0.01

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F-100	No. 1 Crude	2008 (final)	NH ₃	<0.01 0.02	
F-850	South Merox Unit	2008 (final)	NH ₃	<0.01 <0.01	
F-1000	POU	2008 (final)	NH ₃	<0.01	<0.01
F-1400	Vacuum	2008 (final)	NH ₃	<0.01	<0.01
EPN	Source Name	Year	Pollutant	lb/hr	TPY
F-1500	HCU	2008 (final)	NH ₃	<0.01	0.02
F-2000	ROSE Unit	2008 (final)	NH ₃	<0.01	<0.01
F-2200	DOT/Reformate Splitter	2008 (final)	NH ₃	0.17	0.76
F-2300	ATS	2008 (final)	NH ₃	<0.01	0.01
F-2300	SWS	2008 (final)	NH ₃	<0.01	0.04
F-2400	FCCU	2008 (final)	NH ₃	0.04	0.17
F-2400	FCCU Gas Con	2008 (final)	NH ₃	<0.01	<0.01
F-2400	FCCU Merox	2008 (final)	NH ₃	<0.01	<0.01
F-3700	HCU	2008 (final)	NH ₃	<0.01	<0.01
F-3800	No. 2 HDU	2008 (final)	NH ₃	<0.01	<0.01
F-3900	LEU	2008 (final)	NH ₃	<0.01	0.01
F-4000	No. 1 and No. 2 SRU	2008 (final)	NH ₃	<0.01	0.01
V-002	FCCU Regenerator Vent	Current	NH ₃	59.58	104.38
		2008 (final)	NH ₃	4.08	17.88
V-006	No. 1 Reformer Regenerator Vent	2008 (final)	Cl ₂	0.40	0.02

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V-007	No. 2 Reformer Regenerator Vent	2008 (final)	Cl ₂	0.01	0.04
V-008	No. 1 SRU Incinerator	2008 (final)TRS		1.00 4.40	
V-009	No. 2 SRU Incinerator	2008 (final)TRS		1.26 5.54	

- (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 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
 PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
 CO - carbon monoxide
 Cl₂ - chlorine
 NH₃ - ammonia
 H₂S - hydrogen sulfide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Reformer No. 1 shall be shut down prior to start-up of Reformer No. 3.
- (6) Reformer Nos. 2 and 3 share the same Scrubber Vent (EPN EVC-50/51)
- (7) Combustion Source NH₃ emissions are associated with SCR units on various heaters.
- (8) BHT Unit fugitive emissions were authorized under PBR 48330 and are incorporated into the flexible permit.

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

_____Hrs/day _____Days/week _____Weeks/year or 8,760 Hrs/year

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

Dated_____