

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 41945, PSDTX950, and N018M1

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 Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
P-3	Product Inhibitor Tank Vent	VOC (5)	0.01	0.01
P-6	Low-Pressure Flare	VOC (5)	165.69	2.49
		NO <sub>x</sub> (5)	10.28	2.93
		CO (5)	70.21	15.14
		SO <sub>2</sub> (5)	1.55	0.58
		H <sub>2</sub> S	0.02	0.01
P-7	High-Pressure Flare	VOC (5)	139.92	32.28
		NO <sub>x</sub> (5)	12.02	8.31
		CO (5)	61.25	42.34
		SO <sub>2</sub> (5)	13.77	1.30
		H <sub>2</sub> S	0.13	0.01
TK-9804	Storm Water Tank	VOC (5)	0.69	0.37
CT	Cooling Tower	VOC (5)	10.70	13.43
		PM <sub>10</sub> (5)	2.31	6.72
ALKFUG	Fugitives InAlk Unit (4)	VOC (5)	0.64	2.80
BDEFUG	Fugitives Butadiene Unit (4)	VOC (5)	0.92	4.04
UTILFUG	Utility Fugitives (4)	VOC (5)	0.96	4.20
P-10	Tank Truck Loading	VOC (5)	0.22	0.01
BLR	Boiler	VOC (5)	1.22	5.32
		NO <sub>x</sub> (5)	4.86	7.45
		CO (5)	17.75	77.76
		PM <sub>10</sub> (5)	1.46	6.39
		SO <sub>2</sub> (5)	3.46	15.13
		NH <sub>3</sub>	0.75	3.30

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
NH3FUGST	Fugitives-Ammonia Storage (4)	NH <sub>3</sub>	0.01	0.01
NH3FUGSKID	Fugitives-Injection Skid (4)	NH <sub>3</sub>	0.01	0.01
P12	Ammonia Scrubber	NH <sub>3</sub>	0.12	0.12

MAINTENANCE, STARTUP, AND SHUTDOWN EMISSIONS

P-7	High-Pressure Flare Turnaround Cap	VOC	-	14.35
		NO <sub>x</sub>	-	1.15
		CO	-	5.85
		SO <sub>2</sub>	-	0.04
		H <sub>2</sub> S	-	0.01
P-7	High-Pressure Flare MSS Cap	VOC	-	27.00
		NO <sub>x</sub>	-	4.43
		CO	-	22.58
		SO <sub>2</sub>	-	0.75
		H <sub>2</sub> S	-	0.01
P-7	High-Pressure Flare Turnaround and MSS Short-Term Cap	VOC	1,114.39	-
		NO <sub>x</sub>	74.13	-
		CO	377.72	-
		SO <sub>2</sub>	5.26	-
		H <sub>2</sub> S	0.06	-
P-6	Low-Pressure Flare Turnaround Cap	VOC	169.65	1.36
		NO <sub>x</sub>	11.20	0.09
		CO	57.09	0.46
TA CAP	Turnaround Cap (Non-Flare)	VOC	22.17	1.21
		PM	0.35	0.52
		PM <sub>10</sub>	0.35	0.52
		PM <sub>2.5</sub>	0.35	0.52

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
MSS CAP	MSS Cap (Non-Flare)	VOC	14.42	1.94
		PM	0.47	0.36
		PM <sub>10</sub>	0.41	0.36
		PM <sub>2.5</sub>	0.36	0.36

- (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 Title 30 Texas Administrative Code § 101.1  
 NO<sub>x</sub> - total oxides of nitrogen  
 SO<sub>2</sub> - sulfur dioxide  
 PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented  
 PM<sub>10</sub> - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.  
 PM<sub>2.5</sub> - particulate matter (PM) equal to or less than 2.5 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 2.5 microns is emitted.  
 CO - carbon monoxide  
 NH<sub>3</sub> - ammonia  
 H<sub>2</sub>S - hydrogen sulfide
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) These emissions are permitted under prevention of significant deterioration or nonattainment review in addition to State.

\* 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

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

Dated: July 7, 2011