

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 18528

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 **
008LR1	Loading Vent	VOC	3.20	1.62
010MJ68	D-34 Reflux Tank	VOC	0.01	0.01
010LD1	Drum Filling B-27 (7)	VOC	0.62	0.01
		NPG (6)	18.42	0.02
		VOC (5)(6)	0.43	0.01
010LR1	Rail Loading B-40 (7)	NPG	41.19	1.34
		VOC (5)	3.32	0.07
010LT61	Tank Truck Loading Spot B-27 (7)	NPG	41.19	2.60
		VOC (5)	3.32	0.07
---	NPG Loading Limit (7)	NPG	41.19	
010T153	D-28 Column Vent	VOC	1.26	0.01
010T256	Catalyst Wash Tank	VOC	0.13	0.10
011D40	Scrubber	PM (NPG)	0.68	3.00
		PM (TMPD)	0.35	1.50
		VOC	0.68	3.00
011FL1	Flare	CO	0.81	3.54
		NO <sub>x</sub>	0.09	0.41
		SO <sub>2</sub>	0.02	0.05
		VOC	1.16	0.02
011LR1	Loading Vent	VOC	1.14	0.02
011T95	Feed Tank	VOC	6.40	0.03
011T113	Storage Tank	VOC	0.98	0.06

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011T206	Catalyst Wash Tank	VOC	0.13	0.10
011T303	Catalyst Wash Tank	VOC	0.27	0.10
015LT77R	Loading Vent	VOC	0.97	0.02
020LD1	Loading Vent	VOC	0.44	0.14
022LT51	Loading Vent	VOC	1.60	0.81
026T198	Storage Tank	VOC	0.08	0.10
026T199	Storage Tank	VOC	0.08	0.10
049T141	Storage Tank	VOC	0.10	0.10
049T142	Storage Tank	VOC	1.34	1.24
049T143	Storage Tank	VOC	1.34	1.24
049T144	Storage Tank	VOC	1.34	1.24
049T208	Storage Tank	VOC	11.59	1.17
050T3A	Storage Tank	VOC	2.52	0.69
050T50	Storage Tank	VOC	2.66	0.01
050T51	Storage Tank	VOC	2.55	0.01
050T74	Storage Tank	VOC	0.10	0.10
050T77	Storage Tank	VOC	3.49	1.01
050T138	Storage Tank	VOC	0.53	0.10
050T145	Storage Tank	VOC	0.10	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
050T191	Storage Tank	VOC	24.01	2.77
050T197	Storage Tank	VOC	3.49	0.42
050T422	Molten NPG Tank	NPG (6)	40.19	13.10
053D3	D-3 Column	VOC	0.51	0.04
053T53	D-8 Reflux Tank	VOC	0.16	0.01
053T97	Storage Tank	VOC	0.26	0.12
F010FG3	Process Fugitives (4)	VOC	15.54	68.05

- (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) CO - carbon monoxide  
 NO<sub>x</sub> - total oxides of nitrogen  
 NPG - neopentyl glycol  
 PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>  
 PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter (PM) greater than 10 microns is emitted.  
 SO<sub>2</sub> - sulfur dioxide  
 VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1.
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) VOC emissions do not include specifically identified and authorized VOCs from this emission point.
- (6) Drum loading, EPN 010LD1, of NPG 90, Molten NPG, and HPHP is permitted by rule (PBR) 106.472 in addition to the permitted emissions for this EPN. The PBR emission limitations are included for reference.
- (7) EPNs 010LD1, 010LR1 and 010LT61 are group limited for NPG product loading to 41.19 lbs/hr of NPG, this includes the PBR limit for EPN 010LD1

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AIR CONTAMINANTS DATA

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

Hrs/day 24 Days/week 7 Weeks/year 52

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

Dated November 7, 2008