

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 5546

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**
302M330, 302M331, and 302M460	Boilers (Combined Emissions) (Includes only those emissions contributed by the Propanol Unit - See Permit 2175 for the utility boiler permit) (4)	PM ₁₀	0.79	1.92
		NO _x	14.97	39.97
		VOC	0.64	0.42
		CO	4.80	18.40
		SO ₂	0.15	0.56
108A	Propanol Unit Analyzers	VOC	0.20	0.70
		CO	0.10	0.50
108A	Propanol Unit Analyzers (7)	CO	0.02	0.11
108C	Catalyst Emissions	VOC	1.30	0.11
108F	Fugitives (5)	VOC	5.53	24.24
		CO	0.40	1.60
108F	Fugitives (5) (8)	VOC	0.12	0.24
108AV978	Tank 978	VOC	0.01	0.01
251AV36	Tank 36	VOC	1.32	0.90
251AV39	Tank 39	VOC	1.32	0.80
251AV94	Tank 94	VOC	1.32	0.90
251CV646	Tank 646	VOC	1.10	0.40
251CV984	Tank 984	VOC	1.10	0.40

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			lb/hr	TPY**
251DTL	Large Tank Truck Rack Loading Fugitives (5)	VOC	1.73	0.20
251DTL2	Small Tank Truck Rack Loading (5)	VOC	2.92	***
251DTC	Railcar Loading (5)	VOC	3.00	1.70
251DBL	Barge Loading Fugitives (5)	VOC	1.44	0.20
251DM1205	Shipping Flare	VOC	41.64	11.81
		NO _x	2.50	1.30
		SO ₂	0.10	0.10
		CO	21.01	11.10
251M2224	Barge Dock Thermal Oxidizer	VOC	0.10	0.01
		NO _x	0.90	0.32
		SO ₂	0.10	0.02
		CO	0.70	0.30
		PM ₁₀	0.10	0.02
251V1307	Storage Tank V-1307	VOC	1.33	0.01
303M1239	Ethylene Flare (6)	VOC	64.50	1.80
		NO _x	9.40	0.41
		SO ₂	0.20	0.03
		CO	58.94	3.30
306F	Fugitives (5)	VOC	0.20	0.81
		CO	0.13	0.60

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			lb/hr	
<u>TPY**</u>				
306F	Fugitives (5) (8)	VOC	0.01	0.03
306M2107	POX Flare	NO _x	21.90	2.51
		CO	74.21	
		SO ₂	0.30	0.01
306ABLDG1	POX Analyzers	CO	0.40	1.78

- (1) Emission point identification - either specific equipment designation or emission point number (EPN) 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_x - oxides of nitrogen
 CO - carbon monoxide
 PM₁₀ - 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.
 CO - carbon monoxide
 SO₂ - sulfur dioxide
- (4) Emissions from these Boilers (EPNs 302M330, 302M331, and 302M460) reflects only the emissions from the Propanol Unit.
- (5) Fugitive emissions are an estimate only and should not be considered a maximum allowable emission rate.
- (6) Emissions from this Flare (EPN 303M1239) reflects only the emissions from the Propanol Unit. Other emissions from the flare are included in Permit Numbers 2175 and 4449.
- (7) Propanol Unit Analyzers (EPN 108A) emissions are not authorized by Permit 5546. These emissions are being referenced only and are still authorized by Permit By Rule Number 70344, issued in December 2003.
- (8) Fugitive emissions (EPNs 108F, 306F) are not authorized by Permit Number 5546. These emissions are being referenced only and are still authorized by Permit by Rule Number 71351,

issued in April 2004.

* 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 or Hrs/year _____

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

*** Annual emission rate included with EPN 251DTL.

Dated May 3, 2006