

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 28315

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)	<u>Emission Rates *</u>	
			lb/hr	TPY**
TR-03	Filter Pre-Coat Tank	VOC	0.21	0.092
TR-04	Filter Feed Tank	VOC	0.24	0.018
TR-05	Catalyst Removal Maintenance Drain Tank	VOC	3.66	0.01
TR-06	Hot Oil Storage Tank	VOC	0.03	0.0004
TR-07	T-250 Storage Tank	VOC	0.002	0.0001
TR-08, TR-09, TR-10	Product Blend Tanks	VOC	--	0.002
TR-08	Blend Tank No. 1	VOC	0.013	--
TR-09	Blend Tank No. 2	VOC	0.013	--
TR-10	Blend Tank No. 3	VOC	0.013	--
TR-11, TR-12, TR-13, TR-14, TR-15	Product Storage Tanks	VOC	--	0.005
TR-11	Product Storage Tank No. 1	VOC	0.013	--
TR-12	Product Storage Tank No. 2	VOC	0.013	--
TR-13	Product Storage Tank No. 3	VOC	0.013	--
TR-14	Product Storage Tank No. 4	VOC	0.013	--

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
TR-15	Product Storage Tank No. 5	VOC	0.013	--
TR-16	Truck Loading	VOC	0.49	0.29
TR-16T	Brine De-inventory Tank	VOC	4.18	0.22
TR-18	Railcar Loading	VOC	0.49	0.29
TR-30	Filter Aid Addition	PM	0.12	0.064
TR-33	North Cooling Tower	VOC	0.40	1.77
		PM	0.73	3.21
TR-34	Flare	VOC	10.43	13.11
		NO <sub>x</sub>	2.61	5.17
		CO	22.31	46.55
		SO <sub>2</sub>	0.17	0.73
TR-34 MSS	Flare (6)	VOC	9.44	0.46
		NO <sub>x</sub>	1.25	0.04
		CO	10.71	0.36
		SO <sub>2</sub>	0.13	<0.01
TR-35	Fugitives (4)	VOC	1.63	7.14
TR-36	Degas Vacuum System	VOC	0.002	0.009
TR-37	Evaporator Vacuum System	VOC	0.001	0.001
TR-38	Degasser Ring Pump Water Purge Tank	VOC	0.001	0.0001
TR-39	BHT Feed Tank	VOC	0.14	0.001
TR-40	Hot Oil Expansion Tank	VOC	0.15	0.0001
TR-41	SPD Feed Tank	VOC	0.86	0.037

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
TR-42	Evaporator Ring Pump Water Purge Tank	VOC	0.001	0.0001
TR-43	Purge Receiver	VOC	0.001	0.0002
TR-50	Recycle OCE Tank Vent (5)	VOC	0.01	0.01
TR-51	BHT Blend (5)	VOC	0.02	0.01
TR-55	Precoat Filter Tank Vent (5)	VOC	0.35	0.23
TR-56	SPD Tank (5)	VOC	0.35	0.24
TR-57	Filter Feed (5)	PM <sub>10</sub>	0.05	0.04
TR-58	Filter Maintenance (5)	VOC	6.58	1.20
TR-60	Loading Fugitives (5)	VOC	3.20	0.03
PTMEG-MSS	PTMEG MSS Emissions (5)	VOC	12.99	0.24
		NO <sub>x</sub>	4.07	0.94
		CO	1.64	0.22
		SO <sub>2</sub>	0.42	0.07
		PM <sub>10</sub>	0.41	0.07

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- (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  
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 PM greater than 10 microns is emitted.  
NO<sub>x</sub> - total oxides of nitrogen  
CO - carbon monoxide  
SO<sub>2</sub> - sulfur dioxide
- (4) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (5) Includes startup and shutdown emissions from Terathane II7 Polymer Unit.
- (6) TR-34 MSS was originally submitted as part of TR-34. The MSS emissions have been separated and listed in an additional emission point.

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

Hrs/day\_\_\_ Days/week\_\_\_ Weeks/year\_\_\_ or Hrs/year 8,760

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

Dated February 2, 2011