

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, sources, and related activities. 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	
			lbs/hour	TPY (4)
TR-03	Filter Pre-Coat Tank	VOC	0.210	0.092
TR-04	Filter Feed Tank	VOC	0.240	0.018
TR-05	Catalyst Removal Maintenance Drain Tank	VOC	3.660	0.010
TR-06	Hot Oil Storage Tank	VOC	0.030	0.001
TR-07	T-250 Storage Tank	VOC	0.002	0.001
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-08 thru TR-10 Annual Cap	Blend Tank Nos. 1, 2, and 3	VOC		0.002
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	--
TR-15	Product Storage Tank No. 5	VOC	0.013	--
TR-11 thru TR-15 Annual Cap	Product Storage Tank Nos. 1, 2, 3, 4, and 5	VOC		0.005
TR-16	Truck Loading	VOC	0.490	0.290
TR-16T	Brine De-inventory Tank	VOC	4.180	0.220
TR-18	Railcar Loading	VOC	0.490	0.290

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TR-30	Filter Aid Addition	PM ₁₀	0.120	0.064
TR-33	North Cooling Tower	VOC	0.400	1.770
		PM ₁₀	0.730	3.210
TR-34	Flare Normal Operations	VOC	10.140	13.090
		NO _x	2.150	3.350
		CO	18.340	31.000
		SO ₂	0.170	0.730
TR-34 MSS	Flare Maintenance, Startup, and Shutdown (MSS) Activities (6)	VOC	39.860	0.550
		NO _x	5.670	0.220
		CO	48.590	1.930
		SO ₂	0.250	0.050
TR-35	Fugitives (5)	VOC	1.560	6.820
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	0.001
TR-39	BHT Feed Tank	VOC	0.140	0.001
TR-40	Hot Oil Expansion Tank	VOC	0.150	0.001
TR-41	SPD Feed Tank	VOC	0.860	0.037
TR-42	Evaporator Ring Pump Water Purge Tank	VOC	0.001	0.001
TR-43	Purge Receiver	VOC	0.001	0.001
TR-50	Recycle OCE Tank Vent	VOC	0.010	0.010
TR-51	BHT Blend	VOC	0.020	0.010
TR-55	Precoat Filter Tank Vent	VOC	0.350	0.230
TR-56	SPD Tank	VOC	0.350	0.240
TR-57	Filter Feed	VOC	0.050	0.040

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TR-58	Filter Maintenance	VOC	6.580	1.200
TR-60	Loading Fugitives (5)	VOC	3.340	0.070
PTMEG-MSS	PTMEG MSS Emissions (6)	VOC	15.780	0.270
		NO _x	4.070	0.940
		CO	1.640	0.220
		SO ₂	0.420	0.070
		PM ₁₀	0.410	0.070

- (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_x - total oxides of nitrogen
- CO - carbon monoxide
- SO₂ - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM₁₀, as represented
- PM₁₀ - total particulate matter equal to or less than 10 microns in diameter
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Includes startup and shutdown emissions from Terathane II7 Polymer Unit.

Dated June 29, 2012