

Emission Sources - Maximum Allowable Emission Rates

Permit Number 292

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)
E-DF137, E-DF138, E-DF139, E-DF140 and E-DF140	Tanks	VOC	5.87	2.30
E-DFTO and E-RGTO	Vapor Oxidizers	NO _x	8.04	20.34
		CO	4.90	21.26
		VOC	28.02	107.56
		PM/PM ₁₀ /PM _{2.5}	0.44	1.92
		SO ₂	0.80	3.52
E-DM801 and E-M600R	Flares	NO _x	5.27	1.51
		CO	27.13	7.75
		VOC	72.88	15.46
		SO ₂	0.02	0.09
E-FCRUMB, E-FCRUMB3, E-NCHOODED, E-SCHOODED, E-NSPIRAL, E-SSPIRAL, E-NCDWP, E-SCDWP, E-TCDWS, E-TCDWP, E-TCHOOED	Product Fugitives	VOC	116.80	227.09
E-PDN100, E- P200, E-P500, E- PSTF, E-P951, E- PBIO	Wastewater	VOC	4.88	20.35
E-LOAD	Loading Fugitives	VOC	1.58	0.03

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FLEX-FUG	All Fugitives	VOC	19.19	84.23
E-DK801	Cooling Tower	VOC	1.47	6.44
		PM/PM ₁₀ /PM _{2.5}	1.30	5.68
E-DK1801	Cooling Tower	VOC	1.05	4.60
		PM/PM ₁₀ /PM _{2.5}	0.93	4.05
MSS-Total	Maintenance, Startup and Shutdown	VOC	292.58	8.16
		NO _x	13.45	0.41
		CO	79.62	2.14
		PM/PM ₁₀ /PM _{2.5}	0.03	0.01
		BF ₃ (as HF)	1.65	0.01

- (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.
 VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
 PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 CO - carbon monoxide
 BF₃ - boron trifluoride
 HF - hydrogen fluoride
- (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.

Date: August 10, 2012