

Emission Sources - Maximum Allowable Emission Rates

Permit Number 2467

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)
E09A032	Site Flare (Primary Flare) routine operation	VOC	89.05	208.57
		CO	68.54	148.23
		NOx	8.09	17.79
		Ethylene	0.79	1.71
E09A032	Site Flare (Primary Flare) MSS operation	VOC	45.75	25.61
		CO	35.10	29.67
		NOx	3.31	2.24
		Ethylene	0.79	0.28
E10C060	Syn Gas Flare (Backup Flare) routine operation	VOC	2.33	11.04
		CO	17.16	67.11
		NOx	0.61	2.52
E10C060	Syn Gas Flare (Backup Flare) MSS operation	VOC	41.26	21.53
		CO	22.45	16.12
		NOx	3.11	1.88
		Ethylene	0.79	0.13
E10AC3SSM	LPO-10 C3 MSS Emissions	VOC	0.46	0.01
		Ethylene	0.01	0.01
E10AC5SSM	LPO-10 C5 MSS Emissions	VOC	0.46	0.01
E10AC3SMP	LPO-10 C3 Production Sampling	VOC	0.70	0.02
		Ethylene	0.45	0.01
E10AC5SMP	LPO-10 C5 Production Sampling	VOC	2.70	0.09
F10A-01	LPO10C3 Unit	VOC	0.90	3.93

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		CO	1.12	4.91
		Ethylene	0.07	0.30
F10AC5001 (7)	LPO-10 Fugitives (5) in C5 Production	VOC	3.85	14.49
		CO	1.55	6.02
F10AC3001 (7)	LPO-10 Fugitives (5) in C3 Production	VOC	1.19	0.94
		CO	2.77	1.99
		Ethylene	0.07	0.05
E10ACATMIX	Catalyst Mix Tank	VOC	7.54	0.20

- (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 (6) - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
MSS - planned maintenance, startup and shutdown activities
- (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) The authorized VOC rates shown in this table include any ethylene contributions.
- (7) Emissions from the LPO-10 will be either C3 production or C5 production, but not both at the same time.

Date: April 7, 2016