Emission Sources - Maximum Allowable Emission Rates

Permit Number 2446A

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	Source Name (2)	Air Contaminant	Emission Rates	
No. (1)		Name (3)	lbs/hour	TPY (4)
VP-01A	Velpar Flare	Hexane	4.43	8.55
		Toluene	3.69	2.21
		Dimethyamine	0.79	0.24
		Methanol	0.85	0.01
		Ethanol	0.05	0.02
		Cyclohexylisocyanate	0.13	0.01
		F-3455.HCl	0.01	0.01
		2-methylpentane	0.01	0.01
		3-methylpentane	0.01	0.01
		Methylcyclopentane	0.01	0.01
		2,3-dimethylbutane	0.01	0.01
		Acetic Acid	0.04	0.01
		NO _x	0.97	4.24
		СО	8.29	36.33
		SO ₂	0.06	0.28
		Non-methane VOC	0.02	0.09
		VOC (6)	22.39	0.02

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VP-01B	Flare B (NaOMe)	Methanol	0.45	1.56
		NO _x	0.08	0.63
		СО	1.23	5.38
		SO ₂	0.01	0.03
		Non-methane VOC	0.01	0.05
VP-10	Dust Collector	PM	0.30	0.43
		PM ₁₀	0.30	0.43
		PM _{2.5}	0.30	0.43
VP-05F	Process Fugitives	Toluene	1.79	7.69
	(5)	Methanol	0.31	1.36
		Dimethylamine	0.13	0.56
		Cyclohexylisocyanate	0.12	0.38
		Acetic Acid	0.10	0.30
		Hexane	0.53	1.84
		Ethanol	0.04	0.18
		F-3455.HCl	0.02	0.09
		2-methylpentane	0.01	0.01
		3-methylpentane	0.01	0.01
		Methylcyclopentane	0.01	0.01
		2,3-dimethylbutane	0.01	0.01
VP-11F	Dust Fugitives (5)	PM	0.03	0.01
		PM ₁₀	0.03	0.01
		PM _{2.5}	0.03	0.01
AM-03	Amine Scrubber	Dimethylamine	0.01	0.01
AM-03F	Amine Fugitives	Dimethylamine	0.16	0.72

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

	(5)			
VP-RMSS	Vessel Opening	VOC	22.14	0.03
VP-LMSS	Line Opening	VOC	4.42	0.22
EC-VACTRK	Vacuum Truck Cleaning	VOC	3.06	0.05
EC-VACCAS	Vacuum Truck CAS	VOC	0.65	0.03
VP-TVPMSS	Tank Breathing Losses	VOC	0.47	0.04

- (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
 - SO₂ sulfur dioxide
 - PM total particulate matter, suspended in the atmosphere, including PM_{10} 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
- (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) Allowable emission rate applies to MSS shutdown emissions.

Date:	April 2, 2013

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