

Emission Sources - Maximum Allowable Emission Rates

Permit Number 22046

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)
156-FUG	Process Fugitives (5)	VOC	2.54	11.14
		HCl	0.03	0.15
		H ₂ S	0.01	0.03
		Na ₂ S	0.03	0.12
		S	0.01	0.01
		Cl ₂	0.03	0.11
		S ₂ Cl ₂	0.06	0.25
FI-06	Incinerator	VOC	0.11	0.37
		NO _x	0.83	3.65
		CO	0.70	3.07
		SO ₂	0.01	0.02
		PM/PM ₁₀ /PM _{2.5}	0.06	0.28
SC-FI-10	Fume Incinerator	NO _x	1.52	6.66
		CO	1.28	5.59
		VOC	0.62	2.74
		HRVOC	0.47	2.06
		SO ₂	2.78	12.16
		H ₂ S	0.01	0.01
		HCl	0.85	3.47
		PM/PM ₁₀ /PM _{2.5}	0.12	0.51

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13	Process Flare (6)	NO _x	1.42	1.26
		CO	7.06	5.70
		VOC	10.81	3.96
		HRVOC	9.33	3.39
		SO ₂	2.79	1.02
		H ₂ S	0.03	0.01
		HCl	0.65	1.02
CT-13	Cooling Tower	VOC	0.73	1.19
		PM	0.09	0.31
		PM ₁₀ /PM _{2.5}	0.01	0.04
J-4 and J-5	Filter Feed Tanks	PM	0.05	0.03
OS-2	Alkylated Benzene Tank	VOC	0.15	0.03
OS-3	Alkylated Benzene Tank	VOC	0.15	0.03
West P&F	Plate and Frame Filter	VOC	0.18	0.20
P&F-3	Plate and Frame Filter	VOC	0.04	0.01
S-03	Spray Column Absorber	VOC	0.71	0.21
		H ₂ S	0.01	0.01
S-23	Water Spray Column	HCl	0.03	0.01
S-25B	Venturi Scrubber	HCl	0.01	0.01
		SO ₂	0.01	0.01
		Cl ₂	0.01	0.01
S-51	Absorber	H ₂ S	0.02	0.01
		SO ₂	0.11	0.02
156-ALKLR	Loading	VOC	0.45	0.01

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156-SAMPLE	Loading	VOC	0.20	0.01
156-WOLR	Loading	VOC	0.06	0.01
156-CT13-1	Cooling tower tote	VOC	0.26	0.01
156-CT13-3	Cooling tower tote	H ₂ SO ₄	0.01	0.01
156-CT13-2	Cooling tower tote	NaOCl	0.30	0.01
156-WO	Tank	VOC	0.45	0.01
MSS-156OLF	Planned Maintenance	VOC	2.84	0.07
MSS-156SCL	Planned Maintenance	VOC	0.01	0.01
MSS-156CHM	Planned Maintenance	VOC	0.88	0.01
Permit by rule (PBR) sources incorporated by reference. Sources remain authorized by the PBR(s) as listed below:				
106.473				
156-IPLRLR	Loading	VOC	6.87	0.05
106.532				
156-WWC	Wastewater Collection System	VOC	0.03	0.12

- (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
 - HRVOC - highly reactive volatile organic compounds as defined in 30 TAC § 115.10
 - 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
 - HCl - hydrogen chloride
 - Na₂S - sodium sulfide
 - S₂Cl₂ - sulfur chloride
 - H₂S - hydrogen sulfide
 - NaOCl - sodium hypochlorite

(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

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- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Flare designated as EPN 13 is authorized to operate as back-up to the Fume Incinerator designated as EPN SC-FI-10 up to 720 hours per year.

Date: October 3, 2012