

Emission Sources - Maximum Allowable Emission Rates

Permit Number 122246

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 (6)	
			lbs/hour	TPY (4)
S1	Main Process Stack	HF	1.27	5.65
		F ₂	0.09	0.37
S2 and S3	Daikin Reactor Stacks	HF	<0.01	<0.01
		F ₂	0.05	0.20
S4 and S5 (H-1 and H-2)	Daikin Reactor Heater Stacks (two 0.8 MMBtu/hr heaters)	CO (5)	0.13	0.58
		NO _x (5)	0.16	0.70
		SO ₂ (5)	<0.01	<0.01
		VOC (5)	0.01	0.04
		PM (5)	0.01	0.06
		PM ₁₀ (5)	0.01	0.06
		PM _{2.5} (5)	0.01	0.06
S6 (WH-1)	Water Heater Stack (one 0.8 MMBtu/hr heater)	CO (5)	0.07	0.29
		NO _x (5)	0.08	0.34
		SO ₂ (5)	<0.01	<0.01
		VOC (5)	<0.01	0.02
		PM (5)	<0.01	0.03
		PM ₁₀ (5)	<0.01	0.03
		PM _{2.5} (5)	<0.01	0.03
Fugitives	Building Fugitives	HF	0.50	2.17
		F ₂	0.06	0.27
		VOC	0.03	0.13
		PM	0.38	0.55
		PM ₁₀	0.38	0.55
		PM _{2.5}	0.38	0.55

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MAINT-MSS	Maintenance MSS (5)	HF	4.23	0.05
		F ₂	0.17	0.02
		VOC	2.15	0.06

- (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 PM₁₀ and PM_{2.5}
 - PM₁₀
 - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}
 - PM_{2.5}
 - particulate matter equal to or less than 2.5 microns in diameter
 - CO
 - carbon monoxide
 - HF
 - hydrogen fluoride
 - F₂
 - fluorine
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Products of combustion.
- (6) The allowable emission rates include planned maintenance, startup, and shutdown activities.

Date: August 31, 2018