

Emission Sources - Maximum Allowable Emission Rates

Permit Number 34957

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 (5)	
			lbs/hour	TPY (4)
ASMS	Reactors A1 through A9	IOC-U	0.08	0.36
		PM	<0.01	0.01
		PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	0.01
LPES1	Reactors L1a, L1b, L2a, and L2b	IOC-U	0.07	0.30
		PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
LPES2	Reactors L10a, L10b, L11a, L11b, L12a, L12b, L13a, L13b, L14a, and L14b	IOC-U	0.17	0.75
		PM	<0.01	0.01
		PM ₁₀	<0.01	0.01
		PM _{2.5}	<0.01	0.01
S-1	Reactors L3, L4a, L4b, L5, L6, L7, L8, and L9 Piping Components and Chemical Storage Cabinets	IOC-U	<0.01	0.01
		PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
S-2	Polyflow/Quartzware Cleaner Unit/ Passivation Unit/ SPEC1 Unit	IOC-U	0.07	0.01
S-3	Reactor Piping Manifolds, Dopant Storage Cabinets, TCS Storage Cabinet	IOC-U	<0.01	0.01
		PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

S-4	HCl and TCS Trailer Changeouts	IOC-U	<0.01	<0.01
		PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
V-100	TCS and Dopant Line Purges	IOC-U	<0.01	<0.01
		PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
FUG-1	Wastewater	IOC-U	0.02	0.07
BLDGFUG	Building Fugitives from Cleaning Activities	VOC	0.10	0.04
		Exempt Solvent	0.03	0.02
TR-1/TR-2/TR-3/TR-4	Trane HVACs	VOC	0.01	0.03
		SO ₂	<0.01	<0.01
		NO _x	0.1	0.44
		CO	0.02	0.09
		PM	0.01	0.05
		PM ₁₀	0.01	0.05
		PM _{2.5}	0.01	0.05
B-1	Boiler	VOC	0.01	0.04
		SO ₂	<0.01	<0.01
		NO _x	0.15	0.64
		CO	0.12	0.54
		PM	0.01	0.05
		PM ₁₀	0.01	0.05
		PM _{2.5}	0.01	0.05

DG-1	Diesel Generator	VOC	1.19	0.06
		SO ₂	0.97	0.05

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		NO _x	14.69	0.74
		CO	3.17	0.16
		PM	1.04	0.05
		PM ₁₀	1.04	0.05
		PM _{2.5}	1.04	0.05

- (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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - IOC-U - inorganic compounds (unspeciated)
 - 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
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) The allowable emission rates include planned maintenance, startup, and shutdown activities.

Date: March 8, 2019