

Emission Sources - Maximum Allowable Emission Rates

Permit Number 3069A

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)
B-1	400-H.P.Boiler	SO ₂	0.01	0.04
		NO _x	1.65	7.21
		CO	1.38	6.05
		VOC	0.09	0.40
		PM ₁₀	0.13	0.55
		PM	0.13	0.55
		PM _{2.5}	0.13	0.55
B-2	400-H.P.Boiler	SO ₂	0.01	0.04
		NO _x	1.65	7.21
		CO	1.38	6.05
		VOC	0.09	0.40
		PM ₁₀	0.13	0.55
		PM	0.13	0.55
		PM _{2.5}	0.13	0.55
SOCMIFUG	Component Fugitives in Pentane and Styrene Service	VOC	0.86	3.76
T-4	Styrene Storage Tank	VOC	0.06	0.16
T-5	Styrene Storage Tank	VOC	0.06	0.16
T-6	Styrene Storage Tank	VOC	0.06	0.16
BOT-1	Batch Out Tank	VOC	0.01	0.01
BOT-2	Batch Out Tank	VOC	0.01	0.01
BOT-3	Batch Out Tank	VOC	0.01	0.01
BOT-5	Batch Out Tank	VOC	0.01	0.01
BOT-8	Batch Out Tank	VOC	0.01	0.01
BOT/MUT 4	Batch Out Tank	VOC	0.01	0.01

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BOT/MUT 9	Batch Out Tank	VOC	0.01	0.01
D-1	Centrifugal Dryer D-1	VOC	0.62	2.72
D-2	Centrifugal Dryer D-2	VOC	0.62	2.72
D-3	Centrifugal Dryer D-3	VOC	0.62	2.72
D-4	Centrifugal Dryer D-4	VOC	0.62	2.72
REACTFUG-1	Reactor 1 Manway Fugitives	VOC	11.82	0.90
REACTFUG-2	Reactor 2 Manway Fugitives	VOC	11.82	0.90
REACTFUG-3	Reactor 3 Manway Fugitives	VOC	11.82	0.90
REACTFUG-4	Reactor 4 Manway Fugitives	VOC	11.82	0.90
REACTFUG-5a	Reactor 5a Manway Fugitives	VOC	11.82	0.70
REACTFUG-6	Reactor 6 Manway Fugitives	VOC	15.06	1.15
REACTFUG-7	Reactor 7 Manway Fugitives	VOC	15.06	1.15
REACTFUG-8	Reactor 8 Manway Fugitives	VOC	11.82	0.90
REACTFUG-9	Reactor 9 Manway Fugitives	VOC	31.54	2.62
RPV-1	Reactor 1,6,7,8 Purge Vent	VOC	26.88	0.82
RPV-2	Reactor 2 Purge Vent	VOC	11.82	0.18
RPV-3	Reactor 3 Purge Vent	VOC	11.82	0.18
RPV-4	Reactor 4 Purge Vent	VOC	11.82	0.18
RPV-5a	Reactor 5a Purge Vent	VOC	11.82	0.18
RPV-9	Reactor 9 Purge Vent	VOC	31.54	0.48
Wastewater	Wastewater Fugitives	VOC	0.88	0.89
S-1	Polystyrene Silo	PM	0.04	0.06
		PM ₁₀	0.04	0.06
		PM _{2.5}	0.04	0.06
S-2	Polystyrene Silo	PM	0.04	0.06
		PM ₁₀	0.04	0.06

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		PM _{2.5}	0.04	0.06
S-3	Polystyrene Silo	PM	0.04	0.06
		PM ₁₀	0.04	0.06
		PM _{2.5}	0.04	0.06
S-4	Polystyrene Silo	PM	0.04	0.06
		PM ₁₀	0.04	0.06
		PM _{2.5}	0.04	0.06
S-5	Polystyrene Silo	PM	0.04	0.06
		PM ₁₀	0.04	0.06
		PM _{2.5}	0.04	0.06
S-6	Polystyrene Silo	PM	0.04	0.06
		PM ₁₀	0.04	0.06
		PM _{2.5}	0.04	0.06
S-7	Polystyrene Silo	PM	0.04	0.06
		PM ₁₀	0.04	0.06
		PM _{2.5}	0.04	0.06
S-8	Polystyrene Silo	PM	0.04	0.06
		PM ₁₀	0.04	0.06
		PM _{2.5}	0.04	0.06
MUTVENT-1	Blower Vent from Poly Silos to MUT	PM	0.26	0.06
		PM ₁₀	0.26	0.06
		PM _{2.5}	0.26	0.06
MUTVENT-2	Blower Vent from Poly Silos to MUT	PM	0.26	0.06
		PM ₁₀	0.26	0.06
		PM _{2.5}	0.26	0.06
P-1	Torit Filter	PM	0.26	0.06
		PM ₁₀	0.26	0.06
		PM _{2.5}	0.26	0.06
VCU	Vapor Combustor	NO _x	2.25	9.86

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		CO	8.24	36.11
		VOC	3.38	10.37
T-32	HCl Tank	HCl	2.61	<0.01
EXTRUDER-1	PS Extrusion	VOC	0.34	1.46
		Total HAPs		<25

- (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
 - HRVOC - highly reactive volatile organic compounds as defined in 30 TAC § 115.10
 - 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
 - HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
- (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.

Date: August 30, 2017