

Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 4603

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)
OX	Catalytic Oxidizer	CO	12.11	44.20
		NO _x	0.22	0.97
		PM	0.02	0.07
		PM ₁₀	0.02	0.07
		PM _{2.5}	0.02	0.07
		SO ₂	0.01	0.01
		VOC	9.27	40.60
		HAPs	0.91	3.33
		Pb	0.01	0.01
TO-1	Resin Plant Thermal Oxidizer	CO	0.78	3.42
		NO _x	0.39	1.72
		PM	0.03	0.13
		PM ₁₀	0.03	0.13
		PM _{2.5}	0.03	0.13
		SO ₂	0.01	0.01
		VOC	6.97	4.80
		HAPs	7.01	5.18
		Pb	0.01	0.01

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TO-2	B-1 Thermal Oxidizer	CO	0.08	0.36
		NO _x	0.10	0.43
		PM	0.01	0.03
		PM ₁₀	0.01	0.03
		PM _{2.5}	0.01	0.03
		SO ₂	0.01	0.01
		VOC	0.12	0.51
		HAPs	0.01	0.01
		Pb	0.01	0.01
BOIL-1	South Boiler	CO	2.08	9.09
		NO _x	0.79	3.46
		PM	0.19	0.82
		PM ₁₀	0.19	0.82
		PM _{2.5}	0.19	0.82
		SO ₂	0.01	0.06
		VOC	0.14	0.60
		HAPs	0.05	0.21
		NH ₃	0.01	0.01
		Pb	0.01	0.01
BOIL-2	North Boiler	CO	1.72	7.55
		NO _x	2.05	8.98
		PM	0.16	0.68

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		PM ₁₀	0.16	0.68
		PM _{2.5}	0.16	0.68
		SO ₂	0.01	0.05
		VOC	0.11	0.49
		HAPs	0.04	0.18
		NH ₃	0.01	0.01
		Pb	0.01	0.01
TRUCK LOAD	Truck Loading	VOC	2.82	0.42
		HAPs	0.74	0.39
FUGITIVE	Fugitive Emissions (5)	CO	0.01	0.01
		VOC	0.73	3.19
		HAPs	0.44	1.94
TRUCK WASH	Truck Washing	VOC	0.05	0.04
		HAPs	0.04	0.03
NOVBOX-A	Pastillator 1 Dust Collector	PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
K-3 BIN VENT	Melamine Hopper and Transfer System Vents	PM	0.13	0.56
		PM ₁₀	0.04	0.18
		PM _{2.5}	0.04	0.18
WWTP-FUG	Wastewater Treatment	VOC	0.10	0.03
		HAPs	0.10	0.03
		NH ₃	0.04	0.01
PHEN-1	Phenol Storage Tanks	VOC	0.91	0.37
		HAPs	0.91	0.37
M-1	Methanol Storage Tank	VOC	1.06	0.82
		HAPs	1.06	0.82
MSS-OX	Catalytic Oxidizer Startup	CO	44.98	3.96
		NO _x	0.34	1.52

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		PM	0.03	0.12
		PM ₁₀	0.03	0.12
		PM _{2.5}	0.03	0.12
		SO ₂	0.01	0.01
		VOC	18.95	1.22
		HAPs	3.38	0.23
		Pb	0.01	0.01
MSS-TO1	Resin Plant Thermal Oxidizer Startup	CO	0.39	0.01
		NO _x	0.20	0.01
		PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
		SO ₂	0.01	0.01
		VOC	13.39	0.28
		HAPs	11.06	0.25
		Pb	0.01	0.01
MSS-Linebreak	Line Breaking	VOC	0.01	0.01
		HAPs	0.01	0.01
MSS-Filters	Filters	VOC	0.52	0.12
		HAPs	0.47	0.09
MSS-Tank Degassing	Tank Degassing	VOC	5.17	0.02
		HAPs	5.17	0.02
MSS-ATM	Inherently Low Emitting Activities	CO	0.01	0.01
		PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
		VOC	0.15	0.02
MASCRUB	Molten Maleic Anhydride Tank	VOC	0.01	0.01
		HAPs	0.01	0.01

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CONTLOAD	Tote/Drum/Portable Tank Filling	VOC	0.61	0.37
VACTRUCK	Vacuum Truck Loading	VOC	0.16	0.01
		HAPs	0.01	0.01
PHENRR	Phenol Railcar Steaming	VOC	0.19	0.04
		HAPs	0.19	0.04
ResinTKAOS	Controlled Resin Tanks Alternate Operating Scenario (6)	VOC	0.68	0.12
		HAPs	0.68	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)
 - 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
 - NH₃ - ammonia
 - NO_x - total oxides of nitrogen
 - Pb - lead
 - 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
 - SO₂ - sulfur dioxide
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (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) When the Resin Plant Thermal Oxidizer (EPN TO-1) is not be operational Resin Storage Tanks TK-2, TK-3, TK-24, TK-26, TK-30, TK-38, TK-43, TK-47, and TK-52 breathing emissions will be vented to the atmosphere.

Date: January 31, 2022