

Emission Sources - Maximum Allowable Emission Rates

Permit Number 77738

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)
K-12	Reactor	VOC	0.01	0.01
R-401	Reactor	VOC	0.01	0.01
R-402	Reactor	VOC	0.02	0.01
6	Emergency Fire Water Pump	CO	1.47	0.04
		NO _x	6.82	0.18
		PM	0.48	0.01
		PM ₁₀	0.48	0.01
		PM _{2.5}	0.48	0.01
		SO ₂	0.45	0.01
		VOC	0.55	0.01
ST-306	Storage Tank	VOC	0.12	0.01
ST-315	Storage Tank	VOC	0.01	0.01
ST-317	Storage Tank	VOC	0.01	0.01
ST-309	Storage Tank	VOC	0.01	0.01
ST-310	Storage Tank	VOC	0.01	0.01
TT-511	Process Tank	VOC (7)	--	--
TT-512	Process Tank	VOC (7)	--	--
TT-513	Process Tank	VOC (7)	--	--
TT-514	Process Tank	VOC (7)	--	--
TT-515	Process Tank	VOC (7)	--	--
TT-516	Process Tank	VOC (7)	--	--
RST-622	Resin Storage Tank	VOC (8)	--	--
RST-623	Resin Storage Tank	VOC (8)	--	--
RST-624	Resin Storage Tank	VOC (8)	--	--

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RST-629	Resin Storage Tank	VOC (8)	--	--
RST-630	Resin Storage Tank	VOC (8)	--	--
RST-632	Resin Storage Tank	VOC (8)	--	--
RST-637	Resin Storage Tank	VOC (8)	--	--
RST-638	Resin Storage Tank	VOC (8)	--	--
RST-643	Resin Storage Tank	VOC (8)	--	--
RST-644	Resin Storage Tank	VOC (8)	--	--
RST-652	Resin Storage Tank	VOC (8)	--	--
FIAT1	Truck Load Rack	VOC (9)	--	--
FIAT2	Truck Load Rack	VOC (9)	--	--
FIAT3	Truck Load Rack	VOC (9)	--	--
FIAT4	Truck Load Rack	VOC (9)	--	--
RAIL1	Rail Car Loading	VOC (9)	--	--
REACTLOAD	Reactor Loading	PM	0.24	0.06
		PM ₁₀	0.11	0.03
		PM _{2.5}	0.02	0.01
MSSEMIS	Maintenance Startup Shutdown Emissions (6)	VOC	0.09	0.13
FUG	Pipeline and Component Fugitives (5)	VOC	0.10	0.42
TT-CAP	Process Tanks Cap (7)	VOC	0.44	0.24
RST-CAP	Resin Storage Tanks Cap (8)	VOC	0.36	0.82
TRL-CAP	Truck and Rail Car Loading Cap (9)	VOC	0.38	0.11
2	Steam Boiler 2	CO	1.26	5.52
		NO _x	0.48	2.10

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		PM	0.11	0.50
		PM ₁₀	0.11	0.50
		PM _{2.5}	0.11	0.50
		SO ₂	0.01	0.04
		VOC	0.08	0.36
5	Dowtherm G Heater	CO	1.05	4.60
		NO _x	0.45	1.97
		PM	0.10	0.42
		PM ₁₀	0.10	0.42
		PM _{2.5}	0.10	0.42
		SO ₂	0.01	0.03
		VOC	0.07	0.30
STDST	Dowtherm Heat Transfer System	VOC	0.03	0.15
COOL	Cooling Tower	PM	0.02	0.08
		PM ₁₀	0.01	0.06
		PM _{2.5}	0.01	0.02
BLAST	Abrasive Blasting	PM	2.86	0.07
		PM ₁₀	0.34	0.01
		PM _{2.5}	0.03	0.01
INSTR	Instrumentation	VOC	0.01	0.01

- (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
 - NO_x - total oxides of nitrogen
 - 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

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- permit application representations.
- (6) Applies to maintenance, startup, and shutdown (MSS).
 - (7) Process Tanks combined emissions may not exceed the rates shown for the Process Tanks Cap. The Emission Point Nos. (EPNs) subject to this limit are: TT-511, TT-512, TT-513, TT-514, TT-515, and TT-516.
 - (8) Resin Storage Tank combined emissions may not exceed the rates shown for the Resin Storage Tanks Cap. The EPNs subject to this limit are: RST-622, RST-623, RST-624, RST-629, RST-630, RST-632, RST-637, RST-638, RST-643, RST-644, RST-646, RST-647, RST-648, RST-649, RST-650, RST-651, and RST-652.
 - (9) Truck and Rail Car Loading combined emissions may not exceed the rates shown for the Truck and Rail Car Loading Cap. The EPNs subject to this limit are: FIAT1, FIAT2, FIAT3, FIAT4, and RAIL1.

Date: July 23, 2021