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)
ST-033	Glycol Storage Tank	VOC	0.01	0.01
ST-301	Maleic Anhydride Storage Tank	VOC (7)	0.28	0.03
		Maleic Anhydride	0.28	0.03
ST-304	Glycol Storage Tank	VOC	0.01	0.01
ST-305	Styrene Storage Tank	VOC (7)	0.50	0.14
		Styrene	0.50	0.14
ST-306	Fatty Acid Storage Tank	VOC	0.01	0.01
ST-307	Styrene Storage Tank	VOC (7)	0.43	0.12
		Styrene	0.43	0.12
ST-308	Solvent Storage Tank	VOC (7)	2.52	0.12
		Cumene	0.01	0.01
		Naphthalene	0.01	0.01
		Xylene	0.03	0.01
ST-309	Vegetable Oil Storage Tank	VOC	0.01	0.01
ST-310	Vegetable Oil Storage Tank	VOC	0.01	0.01
ST-311	Solvent Storage Tank	VOC (7)	2.52	0.12
		Cumene	0.01	0.01
		Naphthalene	0.01	0.01
		Xylene	0.03	0.01
ST-312	Solvent Storage Tank	VOC (7)	1.91	0.14
		Ethyl Benzene	0.41	0.03
		Toluene	0.06	0.01
		Xylene	1.44	0.10
ST-314	Glycerine Storage Tank	VOC	0.01	0.01
ST-315	Glycol Storage Tank	VOC	0.01	0.01
ST-316	Vegetable Oil Storage Tank	VOC	0.01	0.01
ST-317	Glycol Storage Tank	VOC	0.02	0.01

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ST-318	Solvent Storage Tank	VOC (7)	2.52	0.09
		Cumene	0.01	0.01
		Naphthalene	0.01	0.01
		Xylene	0.03	0.01
ST-319	Solvent Storage Tank	VOC (7)	7.10	0.19
		Toluene	7.10	0.19
ST-330	Phthalic Anhydride Storage Tank	VOC (7)	0.24	0.04
		Phthalic Anhydride	0.24	0.04
ST-340	Dimer Acid Storage Tank	VOC	0.02	0.01
RST-622	Resin Storage Tank ST-622	VOC	22.74	(8)
RST-623	Resin Storage Tank ST-623	VOC	22.74	(8)
RST-624	Resin Storage Tank ST-624	VOC	22.74	(8)
ST-625	Solvent Storage Tank	VOC (7)	2.52	0.07
		Cumene	0.01	0.01
		Naphthalene	0.01	0.01
		Xylene	0.03	0.01
ST-626	Solvent Storage tank	VOC (7)	2.52	0.10
		Cumene	0.01	0.01
		Naphthalene	0.01	0.01
		Xylene	0.03	0.01
ST-627	Solvent Storage Tank	VOC (7)	2.52	0.08
		Cumene	0.01	0.01
		Naphthalene	0.01	0.01
		Xylene	0.03	0.01
RST-629	Resin Storage Tank ST-629	VOC	22.74	(8)
RST-630	Resin Storage Tank ST-630	VOC	22.74	(8)
RST-631	Resin Storage Tank ST-631	VOC	22.74	(8)
RST-632	Resin Storage Tank ST-632	VOC	22.74	(8)
RST-633	Resin Storage Tank ST-633	VOC	22.74	(8)
RST-634	Resin Storage Tank ST-634	VOC	22.74	(8)
RST-635	Resin Storage Tank ST-635	VOC	22.74	(8)
RST-636	Resin Storage Tank ST-636	VOC	22.74	(8)
RST-637	Resin Storage Tank ST-637	VOC	22.74	(8)
RST-638	Resin Storage Tank ST-638	VOC	22.74	(8)
RST-639	Resin Storage Tank ST-639	VOC	22.74	(8)

Emission Sources - Maximum Allowable Emission Rates

RST-640	Resin Storage Tank ST-640	VOC	22.74	(8)
ST-641	Glycol Storage Tank ST-641	VOC (7)	0.01	0.01
		Ethylene Glycol	0.01	0.01
RST-642	Resin Storage Tank ST-642	VOC	22.74	(8)
RST-643	Resin Storage Tank ST-643	VOC	22.74	(8)
RST-644	Resin Storage Tank ST-644	VOC	22.74	(8)
RST-645	Resin Storage Tank ST-645	VOC	22.74	(8)
RST-646	Resin Storage Tank ST-646	VOC	22.74	(8)
RST-647	Resin Storage Tank ST-647	VOC	22.74	(8)
RST-648	Resin Storage Tank ST-648	VOC	22.74	(8)
RST-649	Resin Storage Tank ST-649	VOC	22.74	(8)
RST-650	Resin Storage Tank ST-650	VOC	22.74	(8)
RST-651	Resin Storage Tank ST-651	VOC	22.74	(8)
RST-652	Resin Storage Tank ST-652	VOC	22.74	(8)
2	Steam Boiler	CO	1.26	5.52
		NO_X	0.48	2.10
		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
3	Thermal Oxidizer	CO	0.66	2.87
		NO_X	0.78	3.42
		PM	0.06	0.26

Emission Sources - Maximum Allowable Emission Rates

		PM_{10}	0.06	0.26
		$PM_{2.5}$	0.06	0.26
		SO_2	0.01	0.02
		VOC (7)	0.38	1.67
		Cumene	0.01	0.01
		Ethyl Benzene	0.01	0.01
		Ethylene Glycol	0.11	0.47
		Maleic Anhydride	0.02	0.08
		Naphthalene	0.01	0.01
		Phthalic Anhydride	0.02	0.08
		Toluene	0.01	0.01
		Xylene	0.03	0.01
6	Emergency Fire Water	CO	1.47	0.37
		NO_X	6.82	1.71
		PM	0.48	0.09
		PM_{10}	0.48	0.09
		$PM_{2.5}$	0.48	0.09
		SO_2	0.45	0.11
		VOC	0.55	0.14
STGAS	Gasoline Storage Tank	VOC	4.98	0.05
STDiesel	Diesel Storage Tank	VOC	0.01	0.01
STDFP	Diesel Fire Pump Storage Tank	VOC	0.02	0.01
STDST	Dowtherm Heat Transfer System	VOC	0.03	0.15
TT-510	Thin/Blend Tank 510	VOC	19.27	(9)
TT-511	Thin/Blend Tank 511	VOC	19.27	(9)
TT-512	Thin/Blend Tank 512	VOC	19.27	(9)
TT-513	Thin/Blend Tank 513	VOC	19.27	(9)
TT-514	Thin/Blend Tank 514	VOC	19.27	(9)
TT-515	Thin/Blend Tank 515	VOC	19.27	(9)
TT-516	Thin/Blend Tank 516	VOC	19.27	(9)
WS6	Glycol Weigh Tank	VOC (7)	0.02	0.01
		Ethylene Glycol	0.01	0.01
WS7	Alkyd Weigh Tank	VOC	0.01	0.01
FITTC	Tank Truck Cleaning	VOC (7)	3.39	0.73
		Ethyl Benzene	0.42	0.06

Emission Sources - Maximum Allowable Emission Rates

		Styrene	1.33	0.42
		Toluene	0.07	0.01
		Xylene	1.56	0.24
FIPT	Polyester Drumming	VOC (7)	1.27	1.67
		Styrene	1.27	1.67
FIAT1	Alkyd Product Truck Loading No. 1	VOC (7)	29.48	(10)
		Ethyl Benzene	1.60	
		Toluene	14.19	
		Xylene	5.94	
FIAT2	Alkyd Product Truck Loading No. 2	VOC (7)	29.48	(10)
		Ethyl Benzene	1.60	
		Toluene	14.19	
		Xylene	5.94	
FIAT3	Alkyd Product Truck Loading No. 3	VOC (7)	29.48	(10)
		Ethyl Benzene	1.60	
		Toluene	14.19	
		Xylene	5.94	
FIAT4	Alkyd Product Truck Loading No. 4	VOC (7)	29.48	(10)
		Ethyl Benzene	1.60	
		Toluene	14.19	
		Xylene	5.94	
FIATDRUM	Alkyd Product Drum Loading	VOC (7)	29.48	(10)
		Cumene	0.07	
		Ethyl Benzene	0.96	
		Naphthalene	0.07	
		Toluene	14.19	
		Xylene	3.56	
FUG	Pipeline and Component Fugitives (5)	VOC (7)	0.42	1.86
		Cumene	<0.01	0.05
		Ethyl Benzene	0.02	0.10

Emission Sources - Maximum Allowable Emission Rates

		Naphthalene	0.02	0.07
		Styrene	0.11	0.48
		Toluene	0.01	0.05
		Xylene	0.08	0.35
COOL	Cooling Tower	PM	0.02	0.08
		PM_{10}	0.01	0.06
		$PM_{2.5}$	0.01	0.02
MISC	Misc Fugitves (5)	VOC (7)	0.12	0.49
		Styrene	0.12	0.49
FILT	Filter Press Precoat Tank, Filter Press, Filter Press Cake Media Hopper	VOC (7)	3.82	1.24
		Cumene	0.01	0.01
		Ethyl Benzene	0.37	0.11
		Naphthalene	0.01	0.01
		Toluene	3.66	0.22
		Xylene	1.38	0.37
BLAST	Abrasive Blasting	PM	2.86	0.07
		PM_{10}	0.34	0.01
		$PM_{2.5}$	0.03	0.01
SOLIDHAND	Solids Handling	PM	0.05	0.01
		PM_{10}	0.02	0.01
		$PM_{2.5}$	0.01	0.01
REACTLOAD	Reactor Loading Emissions	PM	2.00	1.10
		PM_{10}	0.20	0.11
		$PM_{2.5}$	0.10	0.06
		VOC (7)	0.11	0.10
		Ethylene Glycol	0.06	0.06
STEAMING	Steaming Socks and Drums	VOC (7)	0.02	0.08
		Styrene	0.02	0.08
INSTR	Instrumentation	VOC	0.01	0.01
XYLENEDRUM	Xylene Drum Loading	VOC (7)	0.03	0.01
		Ethyl Benzene	0.01	<0.01
		Xylene	0.02	<0.01

Emission Sources - Maximum Allowable Emission Rates

MSSEMIS	MSS Emissions (6)	VOC (7)	0.70	0.08
		Ethylene glycol	0.70	0.08
		Styrene	0.02	<0.01
		Toluene	0.22	<0.01
		Xylene	<0.01	<0.01
RESINTNKS (8)	Resin Storage Tanks Cap	VOC (7)	22.74	2.55
		Cumene	0.06	<0.01
		Ethyl Benzene	1.79	0.21
		Naphthalene	0.08	0.01
		Styrene	1.60	0.46
		Toluene	21.78	0.48
		Xylene	6.41	0.70
THINTNKS (9)	Thin/Blend Tanks Cap	VOC (7)	19.27	8.64
		Cumene	0.03	0.03
		Ethyl Benzene	3.20	0.47
		Naphthalene	0.02	0.02
		Styrene	1.10	1.80
		Toluene	18.81	1.05
		Xylene	11.90	1.62
FIATS (10)	Alkyd Product Loading Cap	VOC (7)	29.48	3.03
		Cumene	0.07	0.01
		Ethyl Benzene	1.60	0.25
		Naphthalene	0.07	0.03
		Toluene	14.19	0.44
		Xylene	5.94	0.85

(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 PM_{10} and $PM_{2.5}$, as represented
PM_{10} - 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
SO_2- 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.

Emission Sources - Maximum Allowable Emission Rates

(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

(6) Applies to maintenance, startup, and shutdown (MSS).

(7) Emissions of VOC compounds are included in the total VOC emissions limits for an emission point.

(8) Resin Storage Tank combined emissions may not exceed the rates shown for the Resin Storage Tanks Cap. The Emission Point Nos. (EPNs) subject to this limit are: RST-622, RST-623, RST-624, RST-629, RST-630, RST-631, RST-632, RST-633, RST-634, RST-635, RST-636, RST-637, RST-638, RST-639, RST-640, RST-642, RST-643, RST-644, RST-645, RST-646, RST-647, RST-648, RST-649, RST-650, RST-651, and RST-652.

(9) Thin/Blend Tank combined emissions may not exceed the rates shown for the Thin/Blend Tanks Cap. The EPNs subject to this limit are: TT-510, TT-511, TT-512, TT-513, TT-514, TT-515, and TT-516.

(10) Alkyd Product Loading combined emissions may not exceed the rates shown for the Alkyd Product Loading Cap. The EPNs subject to this limit are: FIAT1, FIAT2, FIAT3, FIAT4, and FIATDRUM.

Date: February 21, 2018