

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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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. 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 *	
			lb/hr	TPY
1466	HS-201/209	NO _x	50.0	219.0
		SO ₂	0.17	0.74
		PM	1.41	6.15
		CO	22.24	97.42
		VOC	0.39	1.72
1480	HB-1301P	NO _x	17.92	78.50
		SO ₂	0.12	0.52
		PM	1.00	4.38
		CO	16.43	71.96
		VOC	0.28	1.22
1461	HB-301B	NO _x	41.4	181.33
		SO ₂	0.13	0.54
		PM	1.04	4.53
		CO	8.28	36.27
		VOC	0.29	1.27
1462	HB-301A	NO _x	31.07	136.09
		SO ₂	0.11	0.52
		PM	1.00	4.36
		CO	7.97	34.89
		VOC	0.28	1.22
1463	HB-301S	NO _x	41.4	181.33
		SO ₂	0.13	0.54
		PM	1.04	4.53
		CO	8.28	36.27
		VOC	0.29	1.27

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1464	RHF 1004-HS101	NO _x	8.80	38.54
		SO ₂	0.07	0.31
		PM	0.54	2.38
		CO	2.62	11.50
		VOC	0.31	1.35
		AIR CONTAMINANTS DATA		

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
1465	Regen Gas Heater 1005 HS-102	NO _x	0.74	3.22
		SO ₂	0.01	0.02
		PM	0.04	0.16
		CO	0.15	0.64
		VOC	0.04	0.17
1467	Peak Reactor Feed Heater	NO _x	1.39	6.07
		SO ₂	0.01	0.03
		PM	0.05	0.22
		CO	0.35	1.52
		VOC	0.03	0.12
1472	BZ Recovery Boiler 1008	NO _x	11.76	51.51
		SO ₂	0.05	0.22
		PM	0.42	1.84
		CO	2.94	12.88
		VOC	0.24	1.03
1473	EB Recovery Boiler 1009	NO _x	25.0	109.5
		SO ₂	0.08	0.37
		PM	0.70	3.08
		CO	5.62	24.63
		VOC	0.20	0.86
307	MT-307	Polyethyl Benzene	0.08	0.31
1475	MT-355	Styrene Monomer	1.08	3.19
1451	MT-315	Styrene Monomer	1.08	3.19

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1452	MT-322	Styrene Monomer	0.69	3.02
1453	MT-311	Ethylbenzene	0.41	1.94
1454	MT-312	Benzene	0.51	0.78
1455	MT-306	Ethylbenzene	3.60	0.69
1457	MT-316	Residue	0.06	1.18

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
1458	MT-310	Toluene	1.36	2.86
1459	MT-317	Styrene Monomer	0.27	0.32
1460	MT-318	Styrene Monomer	0.37	0.31
1	Fugitive (4)	VOC	0.01	0.05
3	Fugitive 1 (4)	Styrene Monomer	0.09	0.40
		Ethylbenzene	0.05	0.20
		Toluene	0.02	0.07
4	Fugitive 2 (4)	Styrene Monomer	0.09	0.40
		Ethylbenzene	0.05	0.20
		Toluene	0.02	0.07
5	Fugitive 3 (4)	Styrene Monomer	0.09	0.40
		Ethylbenzene	0.05	0.20
		Toluene	0.02	0.07
6	Fugitive 4 (4)	Styrene Monomer	0.09	0.40
		Ethylbenzene	0.05	0.20
		Toluene	0.02	0.07
7	Fugitive 5 (4)	Styrene Monomer	0.09	0.40
		Ethylbenzene	0.05	0.20
		Toluene	0.02	0.07
8	Fugitive 6 (4)	Styrene Monomer	0.09	0.40
		Ethylbenzene	0.05	0.20
		Toluene	0.02	0.07
F-1469	Oily Water Separator (4)	Styrene Monomer	<0.01	<0.01
		Ethylbenzene	<0.01	<0.01
		Toluene	<0.01	<0.01
		Benzene	<0.01	<0.01

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F-1470	Process Sewer Sump (4)	Styrene Monomer	<0.01	<0.01
		Ethylbenzene	0.02	0.07
		Toluene	<0.01	0.02
		Benzene	0.02	0.10

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
F-105	Wastewater System (4)	Styrene Monomer	<0.01	0.01
		Ethylbenzene	0.02	0.07
		Toluene	<0.01	0.02
		Benzene	0.02	0.10
F-1468	Stormwater Basin (4)	Styrene Monomer	<0.01	0.03
		Ethylbenzene	0.07	0.29
		Toluene	0.02	0.09
		Benzene	0.09	0.39
F-101	Styrene Monomer Production (4)	Styrene Monomer	0.35	1.55
		Ethylbenzene	0.96	4.19
		Benzene	0.57	2.50
		Polystyrene	0.40	1.74
		Diphenyl/Triphenyl	0.17	0.75
F-102	Ethylbenzene Production (4)	Ethylbenzene	0.73	3.20
		Toluene	0.16	0.68
		Benzene	2.18	12.60
		Dimethyl sulfide	0.10	0.44
		Polyethyl benzene	0.17	0.77
		Ethylene	0.34	1.49
		Polystyrene	0.02	0.10
		Diphenyl/Triphenyl	0.01	0.04
F-106	Utilities (4)	Ethylbenzene	0.18	0.81
		Polystyrene	0.15	0.64
		Diphenyl/Triphenyl	0.06	0.27
F-104	(4)	Styrene	0.11	0.50
		Toluene	0.11	0.50

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F-103	TDA (4)	Benzene	0.02	0.09
		Ethylbenzene	0.36	1.59
		Benzene	0.23	1.0
		Toluene	0.02	0.07

- (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) PM - particulate matter
VOC - volatile organic compounds as defined in General Rule 101.1
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day____Days/week____Weeks/year____or Hrs/year 8,760