

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

5252

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-201/219	NO <sub>x</sub>	50.0	219.0
		SO <sub>2</sub>	0.17	0.74
		PM	1.41	6.15
		CO	22.24	97.42
		VOC	0.39	1.72
1480	HB-1301P	NO <sub>x</sub>	17.92	78.50
		SO <sub>2</sub>	0.12	0.52
		PM	1.00	4.38
		CO	1.90	8.32
		VOC	0.28	1.22
1461	HB-301B	NO <sub>x</sub>	41.4	181.33
		SO <sub>2</sub>	0.13	0.54
		PM	1.04	4.53
		CO	8.28	36.27
		VOC	0.29	1.27
1462	HB-301A	NO <sub>x</sub>	31.07	136.09
		SO <sub>2</sub>	0.11	0.52
		PM	1.00	4.36
		CO	7.97	34.89
		VOC	0.28	1.22
1463	HB-301S	NO <sub>x</sub>	41.4	181.33
		SO <sub>2</sub>	0.13	0.54
		PM	1.04	4.53
		CO	8.28	36.27
		VOC	0.29	1.27

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

1464	RHF 1004-HS101	NO <sub>x</sub>	8.80	38.54
		SO <sub>2</sub>	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)	<u>Emission Rates *</u>	
			lb/hr	TPY
1465	Regen Gas Heater 1005 HS-102	NO <sub>x</sub>	0.74	3.22
		SO <sub>2</sub>	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 <sub>x</sub>	1.39	6.07
		SO <sub>2</sub>	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 <sub>x</sub>	11.76	51.51
		SO <sub>2</sub>	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 <sub>x</sub>	25.0	109.5
		SO <sub>2</sub>	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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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
1458	MT-310	Toluene	1.36	2.86
1459	MT-317	Styrene Monomer	0.27	0.32

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

		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
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
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

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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
		Benzene	0.02	0.09
		Ethylbenzene	0.36	1.59
F-103	TDA (4)	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.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- (3) PM - particulate matter  
VOC - volatile organic compounds as defined in General Rule 101.1  
NO<sub>x</sub> - total oxides of nitrogen  
SO<sub>2</sub> - 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

Dated\_\_\_\_\_