

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 9395

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)	<u>Emission Rates</u>	
			lb/hr	TPY
E-F304	TBA Tank	VOC	11.25	2.50
E-F551	Propylene Carbonate Tank 0.006	VOC		0.18
E-F851	DPGME Bottoms Tank	VOC	0.04	0.03
E-F1101A	Dipropylene Glycol Tank 0.006	VOC		0.008
E-F1101B	Dipropylene Glycol Tank 0.006	VOC		0.008
E-F1101C	PGME Tank	VOC	0.06	0.16
E-F1101D	PGME Tank	VOC	0.06	0.16
E-F1102A	Propylene Glycol Tank	VOC	1.77	0.17
E-F1102B	Propylene Glycol Tank	VOC	1.77	0.17
E-F1102C	Propylene Glycol Tank	VOC	3.38	0.16
E-F1102D	Propylene Glycol Tank	VOC	1.46	0.13
E-F1103A	DPGME Tank	VOC	0.07	0.04
E-F1103B	DPGME Tank	VOC	0.07	0.04

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
E-F1103C	Tripropylene Glycol Tank 0.001	VOC		0.001
E-F1103D	Tripropylene Glycol Tank 0.001	VOC		0.001
E-F1104A	Glycol Rerun Tank	VOC	3.35	0.03
E-F1104B	Glycol Rerun Tank	VOC	3.35	0.03
E-F1104C	Dipropylene Glycol Tank 0.03	VOC		0.095
E-F1105A	Propylene Glycol Tank	VOC	0.12	0.09
E-F1105B	Propylene Glycol Tank	VOC	0.12	0.09
E-F1108A	DPGME Bottoms Tank	VOC	0.03	0.07
E-F1109	Glycol Bottoms Tank	VOC	0.006	0.012
E-F1110	Propylene Glycol Tank	VOC	0.65	0.01
E-F1162	PGME Tank	VOC	0.22	0.21
E-F1164	DPGME Tank	VOC	3.49	0.19
E-F1165	Ethers Rerun Tank	VOC	0.43	0.13
E-F1206B	Alkanes Tank	VOC	11.03	1.21
E-F1208C	Crude TBA Tank	VOC	0.42	1.31

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
E-F1219	TBA and Acetone Tank	VOC	0.68	2.07
E-F1280	Tripropylene Glycol Tank 0.009	VOC		0.065
E-F2340	TBA Surge Tank	VOC	1.03	1.94
E-F2835	Glycols Tank	VOC	1.30	0.11

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
E-B1550	Flare	VOC	75.0	87.6
		NO _x	20.0	17.5
		CO	117.7	103.1
E-B801N	Hot Oil Heater	VOC	1.08	4.73
		NO _x	6.90	30.24
		CO	1.81	7.90
		PM	0.08	0.34
E-B801S	Hot Oil Heater	VOC	1.08	4.73
		NO _x	6.90	30.24
		CO	1.81	7.90
		PM	0.08	0.34
E-B901	Process Heater	VOC	0.44	1.94
		NO _x	2.00	8.78
		CO	0.53	2.34
		PM	0.03	0.15
E-B902A	Process Heater	VOC	0.22	0.97
		NO _x	1.71	7.49
		CO	0.44	1.94
		PM	0.02	0.07
E-B902B	Process Heater	VOC	0.15	0.64
		NO _x	1.61	7.04
		CO	0.41	1.80
		PM	0.01	0.04
E-B902C	Process Heater	VOC	0.14	0.62
		NO _x	1.41	6.20
		CO	0.36	1.59
		PM	0.01	0.04

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
E-B1751	Hot Oil Heater	VOC	0.03	0.15
		NO _x	1.68	7.36
		CO	0.42	1.84
E-B2890	Hot Oil Heater	VOC	1.69	7.40
		NO _x	9.12	39.95
		CO	2.40	10.53
		PM	0.12	0.54
E-86	DPG Loading	VOC	0.131	0.002
E-CD4	DPG/TPG Loading	VOC	0.393	0.041
E-GLYBTM	DPG Bottoms Loading	VOC	0.142	0.005
E-PCL	PC Loading	VOC	0.080	0.011
E-T10	MPG Loading	VOC	0.858	0.141
E-AB1	MPG Loading	VOC	1.126	0.266
E-AB2	MPG Loading	VOC	1.126	0.266
E-CD5	MPG Loading	VOC	1.126	0.266
E-4	TPG Loading	VOC	0.084	0.002
E-IPGLT	IPG Loading	VOC	0.238	0.002
E-611TL	Caustic Loading	VOC	0.098	0.001
E-U1801	BPI Cooling Tower	VOC	0.92	4.05
E-U1802	BPII Cooling Tower	VOC	1.47	6.44

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Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
E-U1803	BPIII Cooling Tower	VOC	1.11	4.87
E-BPIFUG	BPI Fugitives (4)	VOC	22.36	97.93
E-BP2FUG	BPII Fugitives (4)	VOC	28.14	123.25
E-BP3FUG	BPIII Fugitives (4)	VOC	18.16	79.56
E-TKFUG	Tank Farm Fugitives (4) 78.70	VOC		17.97

(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) VOC - volatile organic compounds as defined in General Rule 101.1

NO_x - total oxides of nitrogen

PM - particulate matter

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

Permit No. 9395
Page 7

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr TPY</u>

Dated_____