

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 3945A

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 *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
GBB002	CTL I Environmental Vent 1.14		Cl ₂	1.30
	Scrubber (4) (6)	HCl	4.01	1.17
		PM	0.30	1.31
		VOC	2.00	2.63
GBB005	CTL I HTF Heater Stack 8 MM BTU/HR (6)	CO	0.17	0.74
		NO _x	0.80	3.50
		PM	0.10	0.42
		SO ₂	0.01	0.02
		VOC	0.04	0.19
GBB006	West Caustic Tank (6)	NaOH	<0.01	<0.01
GBB007	East Caustic Tank (6)	NaOH	<0.01	<0.01
GBB008	CTL I HTF Expansion Vessel <0.01		VOC	<0.01
GBB009	Sulfuric Acid Tank	H ₂ SO ₄	<0.01	<0.01
FGBB01	CTL I Fugitives (5) (6) 0.66		Cl ₂	0.15
		Freon 22	2.28	10.00
		HCl	0.17	0.74
		PM	0.25	1.10

GBT002	CTL II Environmental Vent		Cl ₂	10.0
	2.7			
	Scrubber (4) (7)		HCl	10.0
			PM	0.53
	VOC	22.8		12.2

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Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
GBT002	CTL II Environmental Vent	Cl ₂	1.35	
	1.18			
	Scrubber (4) (8)	HCl	4.15	1.21
		PM	0.30	1.31
		VOC	2.00	2.63
GBT003	CTL II HTF Heater Stack	CO	0.10	
	0.10			
	3 MM BTU/HR (7)	NO _x	0.80	2.4
		PM	0.10	0.30
		SO ₂	1.4	4.4
		VOC	0.1	0.1
GBT003	CTL II HTF Heater Stack	CO	0.06	
	0.28			
	3 MM BTU/HR (8)	NO _x	0.30	1.31
		PM	0.04	0.16
		SO ₂	<0.01	0.01
		VOC	0.02	0.07
GBT004	East Package Boiler	CO	1.7	5.1
	33 MM BTU/HR (7)	NO _x	10.1	31.2
		PM	1.1	3.5
		SO ₂	18.2	56.2
		VOC	0.33	1.0
GBT004	East Package Boiler	CO	1.38	6.06
	33 MM BTU/HR (8)	NO _x	5.53	24.22
		PM	0.54	2.37
		SO ₂	0.02	0.10
		VOC	0.11	0.48
GBT006	Emergency Generator	CO	4.2	0.50
	630 HP Diesel Fired (7)	NO _x	21.9	

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Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
	1.9			
		PM	1.4	0.20
		SO ₂	1.3	0.20
		VOC	1.6	0.30
GBT006	Emergency Generator 630 HP Diesel Fired (8) 0.50	CO	1.30	0.13
		NO _x		4.96
		PM	0.11	0.01
		SO ₂	0.81	0.08
		VOC	0.16	0.02
GBT007	Emergency Diesel Fuel Tank (7)	VOC	0.1	0.1
GBT007	Emergency Diesel Fuel Tank (8)	VOC	<0.01	<0.01
GBT008	West Package Boiler 60 MM BTU/HR (7)	CO	0.9	3.9
		NO _x	9.2	31.4
		PM	0.8	3.5
		SO ₂	0.1	0.14
		VOC	0.2	0.71
GBT008	West Package Boiler 60 MM BTU/HR (8)	CO	2.10	9.20
		NO _x	8.40	36.79
		PM	0.82	3.60
		SO ₂	0.04	0.16
		VOC	0.17	0.74
GBT009	CTL II HTF Expansion Vessel 0.03	VOC		0.03

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<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
FGBT01	CTL II Fugitives (5) (7) 0.90	Cl ₂	0.20	
		Freon 12	3.5	15.3
		HCl	0.1	0.30
		PM	0.1	0.20
		VOC	0.26	1.13
FGBT01	CTL II Fugitives (5) (8) 0.70	Cl ₂	0.16	
		HCl	0.13	0.57
	PM	0.19	0.83	

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- (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) Cl₂ - chlorine
CO - carbon monoxide
HCl - hydrogen chloride
H₂SO₄ - sulfuric acid
NaOH - sodium hydroxide
NO_x - total oxides of nitrogen
PM - particulate matter
SO₂ - sulfur dioxide
VOC - volatile organic compounds as defined in General Rule 101.1
- (4) CTL I - Chlorothalonil I Production Unit
CTL II- Chlorothalonil II Production Unit
- (5) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (6) These emissions rates shall become effective after the CTL I unit has been modified as defined in Special Condition No. 3.
- (7) These emissions rates shall cease to be effective when the CTL II unit is modified as defined in Special Condition No. 3.
- (8) These emissions rates shall become effective after the CTL II unit has been modified as defined in Special Condition No. 3.

* 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

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Dated _____