Permit Number 234B

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 Emission		Emission	on Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **	
GBB001	Incinerator SO ₂	CO Cl ₂ HCI NO _x PM <0.01	0.20 9.00 5.38 0.24 0.10 0.01	0.87 4.74 6.46 1.04 0.40	
	_	VOC	0.29	0.04	
GBB002	CTL I Environmental Vent Scrubber	CI ₂ HCI PM VOC	1.30 4.00 0.60 8.02	1.15 1.17 0.33 0.89	
GBB005	CTL I Heat Transfer Fluid (HTF) Heater Stack 8 MMBtu/hr	CO NO _x PM SO ₂ VOC	0.66 0.78 0.06 0.01 0.04	2.89 3.44 0.26 0.02 0.19	
GBB006	West Caustic Tank	NaOH	<0.01	<0.01	
GBB007	East Caustic Tank	NaOH	<0.01	<0.01	
GBB008	CTL I HTF Expansion Vessel	VOC	3.70	0.01	
GBB009	Sulfuric Acid Tank (Fresh)	H ₂ SO ₄	0.02	0.02	

AIR CONTAMINANTS DATA

Emission *	Source A	ir Contaminant	Emissio	n Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY **
GBB010	CTL I Emergency Generator 600-HP Diesel Fired	CO NO_x PM_{10} SO_2 VOC	4.00 18.50 1.30 1.20 1.50	0.22 1.02 0.07 0.07 0.08
GBB011	CTL I Emergency Generator Diesel Storage Tank	VOC	0.03	0.01
GBB012	Relief Scrubber Surge Tank	NaOH	<0.01	<0.01
GBB013	Refrigeration System Inerts Vent	Freon	10.00	6.20
GBB014	CTL I Dust Filter	РМ	0.21	0.71
FGBB01	CTL I Fugitives (4)	Cl ₂ Freon HCl PM VOC	0.19 1.70 0.10 2.90 0.45	0.70 0.75 0.30 0.24 1.59
GBT002	CTL II Environmental Vent Scrubber	CI ₂ HCI PM VOC	1.35 4.15 0.60 8.00	1.18 1.22 0.40 0.40
GBT003	CTL II HTF Heater Stack 4.1 MMBtu/hr	CO NO _x PM SO ₂ VOC	0.34 0.40 0.03 0.01 0.02	1.48 1.76 0.13 0.01 0.10

AIR CONTAMINANTS DATA

Emission *	Source	Air Contaminant	<u>Emissio</u>	n Rates
Point No. (1)	Name (2)	Name (3)	1b/hr	TPY **
GBT004	East Package Boiler 39.5 MMBtu/hr	CO NO _x PM SO ₂ VOC	3.25 3.87 0.29 0.03 0.21	14.25 16.96 1.29 0.10 0.93
GBT006	Emergency Generator 630-HP Diesel Fired	CO NO _x PM SO ₂ VOC	3.70 14.10 0.40 4.50 0.40	0.53 2.03 0.06 0.65 0.06
GBT007	Emergency Diesel Fuel Tank	VOC	0.01	<0.01
GBT008	West Package Boiler 60 MMBtu/hr	CO NO _x PM SO ₂ VOC	4.94 5.88 0.45 0.04 0.32	21.64 25.76 1.96 0.15 1.42
GBT009	CTL II HTF Expansion Ve	essel Dowtherm G	0.04	0.17
GBT010	CTL II HTF Drain Tank	Dowtherm G	0.93	0.01
GBT011	CTL II IPN Dust Filter	PM	0.09	0.32
FGBT01		Cl₂ HCI 0.05 Non-VOC HC PM	0.12 0.03 0.08 0.73	0.40 0.24 0.56
		Syltherm VOC	0.15 0.13	0.63 0.55

AIR CONTAMINANTS DATA

Emission *	Source	Ai	r Contaminant	<u>Emission</u>	Rates
Point No. (1)	Name (2)		Name (3)	1b/hr	TPY **
GBE001	Distillation HTF Heater 9.9 MMBtu/hr		CO NO _x	0.84 0.37	3.68 1.61
	PI So	PM	0.08	0.33	1.01
		SO ₂ VOC	0.01 0.06	0.03 0.24	
GBE002	Distillation HTF Exp. Ves	ssel	Syltherm	0.08	0.02
GBE003		PM VOC	Non-VOC HC 0.41 0.08	1.45 1.09 0.24	4.53

- (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 CTL - chlorothalonil

Freon - 1,1,1-chlorodifluoroethane, commercially known as Freon 22

HC - hydrocarbons
HCl - hydrogen chloride

H₂SO₄ - sulfuric acid

NaOH - sodium hydroxide NO_x - total oxides of nitrogen

PM - particulate matter, suspended in the atmosphere, including PM₁₀

 PM_{10} - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.

SO₂ - sulfur dioxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES
* Emission rates are based on and the facilities are limited by the following maximum operating schedule:
Hrs/day 24 Days/week 7 Weeks/year 52
** Compliance with annual emission limits is based on a rolling 12-month period.
Dated September 24, 2003