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.

Emission	Source	Air Contaminant	Emissio	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **
GBB001	Incinerator	СО	0.20	0.87
022001	oorato.	Cl_2	9.00	4.74
		HCI	5.38	6.46
		NO_x	0.24	1.04
		PM	0.10	0.40
		SO_2	< 0.01	0.01
		VOC	0.29	0.04
GBB002	CTL I Environmental Vent	Cl_2	1.30	1.15
	Scrubber	HCI	4.00	1.17
		PM	0.60	0.33
		VOC	8.02	0.89
GBB002 (MSS Only)	CTL I Environmental Vent	CL_2	0.13	<0.01
	Scrubber	HCI	0.01	<0.01
		PM	0.22	<0.01
		VOC	6.29	0.37
GBB005	CTL I Heat Transfer Fluid	СО	0.66	2.89
	(HTF) Heater Stack	NO _x	0.78	3.44
	8 MMBtu/hr	PM	0.06	0.26
		SO_2	0.01	0.02
		VOC	0.04	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 Vess	el VOC	3.70	0.01
GBB008 (MSS Only)	CTL I HTF Expansion Vess	el VOC	0.49	<0.01
GBB009	Sulfuric Acid Tank (Fresh)	H ₂ SO ₄	0.02	0.02
GBB010	CTL I Emergency Generato	or CO	4.00	0.22
	600-HP Diesel Fired	NO_x	18.50	1.02
		PM_{10}	1.30	0.07
		SO_2	1.20	0.07
		VOC	1.50	0.08
GBB011	CTL I Emergency Generato	r VOC	0.03	0.01

Emission	Source	Air Contaminant	<u>Emissior</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **
	Diesel Storage Tank			
GBB012	Relief Scrubber Surge Tar	nk NaOH	<0.01	<0.01
GBB013	Refrigeration System Inert Vent	s 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
MGBB01 (MSS Only)	CTL I MSS Fugitives (4)	CL₂ Freon HCI PM VOC	0.04 0.15 0.05 3.00 0.32	0.01 <0.01 0.01 0.38 <0.01

Emission	Source	Air Contaminant		n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **
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
GBT002 (MSS Only)	CTL II Environmental Vent Scrubber	CI ₂ HCI PM VOC	0.05 0.01 0.22 6.29	<0.01 <0.01 <0.01 0.16
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
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

Emission		ir Contaminant		n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **
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 Vesse	el Dowtherm G	0.04	0.17
GBT010	CTL II HTF Drain Tank	Dowtherm G	0.93	0.01
GBT010 (MSS Only)	CTL II HTF Drain Tank	Marlotherm	0.49	0.01
GBT011	CTL II IPN Dust Filter	PM	0.09	0.32
FGBT01	CTL II Fugitives (4)	Cl ₂ HCl Non-VOC HC PM Syltherm VOC	0.12 0.05 0.08 0.73 0.15 0.13	0.40 0.03 0.24 0.56 0.63 0.55
MGBT01 (MSS Only)	CTL II MSS Fugitives (4)	Cl ₂ HCl PM VOC	0.03 0.05 2.00 0.32	<0.01 <0.01 0.15 <0.01
GBE001	Distillation HTF Heater 9.9 MMBtu/hr	CO NO _x PM SO ₂ VOC	0.84 0.37 0.08 0.01 0.06	3.68 1.61 0.33 0.03 0.24
GBE002	Distillation HTF Exp. Vessel	Syltherm	0.08	0.02
GBE002 (MSS Only)	Distillation HTF Exp. Vessel	Syltherm	0.03	<0.01

AIR CONTAMINANTS DATA

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **
GBE003	Product Baghouse	Non-VOC HC	1.45	4.53
		PM	0.41	1.09
		VOC	0.08	0.24

- (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

PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM 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.
- * 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 November 1, 2010