#### 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	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **
GBB001	Incinerator	CO Cl <sub>2</sub> HCl	0.20 9.00 5.38	0.87 4.74 6.46
		NOx PM SO₂ VOC	0.24 0.10 <0.01 0.29	1.04 0.40 0.01 0.04
GBB002	CTL I Environmental Vent Scrubber	Cl <sub>2</sub> HCl PM VOC	1.30 4.00 0.60 8.02	1.15 1.17 0.33 0.89
GBB002 (MSS Only)	CTL I Environmental Vent Scrubber	CL₂ HCl PM VOC	0.13 0.01 0.22 6.29	<0.01 <0.01 <0.01 0.37
GBB005	CTL I Heat Transfer Fluid (HTF) Heater Stack 8 MMBtu/hr	CO NO <sub>x</sub> PM SO <sub>2</sub> 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 Vess	sel VOC	3.70	0.01
GBB008 (MSS Only)	CTL I HTF Expansion Vess	sel VOC	0.49	<0.01

Emission	Source	Air Contaminant	Emissio	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **
GBB009	Sulfuric Acid Tank (Fresh)	H <sub>2</sub> SO <sub>4</sub>	0.02	0.02
GBB009	Sullulic Acid Talik (Flesh)	1 12304	0.02	0.02
GBB010	CTL I Emergency Generate 600-HP Diesel Fired	or 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 Generate Diesel Storage Tank		0.03	0.01
GBB012	Relief Scrubber Surge Tan	k NaOH	<0.01	<0.01
GBB013	Refrigeration System Inerts Vent	s Freon	10.00	6.20
GBB014	CTL I Dust Filter	РМ	0.21	0.71
FGBB01	CTL I Fugitives (4)	Cl <sub>2</sub> 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 HCl 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	Emission	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **
GBT002	CTL II Environmental Vent Scrubber	Cl₂ HCl 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	Cl <sub>2</sub> HCl 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 <sub>x</sub> PM SO <sub>2</sub> 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 <sub>x</sub> PM SO <sub>2</sub> 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 <sub>x</sub> PM SO <sub>2</sub> 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 <sub>x</sub> PM SO <sub>2</sub> 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 Vess		0.04	0.17

Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **
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)	Cl₂ 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)	CI₂ HCI 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 <sub>x</sub> PM SO <sub>2</sub> 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. Vess	el Syltherm	0.08	0.02
GBE002 (MSS Only)	Distillation HTF Exp. Vess	el 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.
- Specific point source name. For fugitive sources use area name or fugitive source name. (2)
- (3) Cl<sub>2</sub> - chlorine

CO - carbon monoxide

CTL - chlorothalonil

Freon - 1.1.1-chlorodifluoroethane, commercially known as Freon 22

HC - hydrocarbons

 hydrogen chloride HCI

H<sub>2</sub>SO<sub>4</sub> - sulfuric acid

NaOH - sodium hydroxide

- total oxides of nitrogen  $NO_x$ 

- particulate matter, suspended in the atmosphere, including PM<sub>10</sub> PM

PM<sub>10</sub> - 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.

- sulfur dioxide SO<sub>2</sub>

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 August 8, 2011