### 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, sources, and related activities. 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.	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
(1)			lbs/hour	TPY (4)
GBB001	Incinerator	со	0.20	0.87
		Cl <sub>2</sub>	2.41	4.74
		нсі	2.96	6.45
		NO <sub>x</sub>	0.24	1.04
		РМ	0.10	0.40
		PM <sub>10</sub>	0.10	0.40
		PM <sub>2.5</sub>	0.10	0.40
		SO <sub>2</sub>	0.01	0.01
		voc	0.01	0.04
GBB002	CTL I Vent Scrubber	Cl <sub>2</sub>	1.30	1.15
		HCI	4.00	1.17
		РМ	0.60	0.85
		PM <sub>10</sub>	0.60	0.85
		PM <sub>2.5</sub>	0.60	0.85
		voc	2.20	2.75
MGBB02	CTL I Vent Scrubber MSS Emissions	Cl <sub>2</sub>	0.02	0.02
		HCI	0.01	0.02
		РМ	0.01	0.01
		PM <sub>10</sub>	0.01	0.01
		PM <sub>2.5</sub>	0.01	0.01

		VOC	6.03	0.46
GBB015	CTL I Heat Transfer	co	0.72	3.17
OBBOIS	Fluid (HTF) Heater	CO		
		NOx	0.43	1.89
		РМ	0.07	0.29
		PM <sub>10</sub>	0.07	0.29
		PM <sub>2.5</sub>	0.07	0.29
		SO <sub>2</sub>	0.02	0.03
		voc	0.05	0.21
GBB006	West Caustic Tank	NaOH	0.01	0.01
GBB007	East Caustic Tank	NaOH	0.01	0.01
GBB008	CTL I HTF Expansion Vessel	Therminol	0.02	0.09
MGBB08	CTL I HTF Expansion Vessel MSS Emissions	Therminol	1.50	0.01
GBB009	Sulfuric Acid Tank (Fresh)	H <sub>2</sub> SO <sub>4</sub>	0.02	0.02
GBB010	CTL I Emergency Generator	со	4.00	0.22
	Generator	NO <sub>x</sub>	18.50	1.02
		РМ	1.30	0.07
		PM <sub>10</sub>	1.30	0.07
		PM <sub>2.5</sub>	1.30	0.07
		SO <sub>2</sub>	1.20	0.07
		VOC	1.50	0.08
GBB011	CTL I Emergency Generator Diesel Fuel 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	PM	0.21	0.71
		PM <sub>10</sub>	0.21	0.71
		PM <sub>2.5</sub>	0.21	0.71
FGBB01	CTL I Fugitives (5)	Cl <sub>2</sub>	0.19	0.70
		Freon	1.70	0.75
		HCI	0.10	0.31
		PM	2.90	0.24
		PM <sub>10</sub>	1.45	0.12
		PM <sub>2.5</sub>	0.73	0.06
		voc	0.45	1.59
MGBB01	CTL I MSS Fugitives (5)	Cl <sub>2</sub>	0.03	0.01
		HCI	0.05	0.01
		РМ	0.50	0.01
		PM <sub>10</sub>	0.25	0.01
		PM <sub>2.5</sub>	0.13	0.01
GBT008	West Package Boiler	со	4.94	21.64
		NO <sub>x</sub>	5.88	25.76
		РМ	0.45	1.96
		PM <sub>10</sub>	0.45	1.96
		PM <sub>2.5</sub>	0.45	1.96
		SO <sub>2</sub>	0.04	0.15
		voc	0.32	1.42
GBT009	CTL II HTF Expansion Vessel	Therminol	0.01	0.06
GBT010	CTL II HTF Drain Tank	Therminol	0.02	0.09
MGBT10 Project Number: 190927	CTL II HTF Drain Tank MSS	Therminol	1.05	0.01

	Emissions			
GBT011	CTL II IPN Dust	РМ	0.09	0.32
	Filter	PM <sub>10</sub>	0.09	0.32
		PM <sub>2.5</sub>	0.09	0.32
FGBT01	CTL II Fugitives (5)	Cl <sub>2</sub>	0.12	0.40
		HCI	0.05	0.03
		See Footnote (6)	0.08	0.24
		PM	0.73	0.56
		PM <sub>10</sub>	0.37	0.28
		PM <sub>2.5</sub>	0.18	0.14
		Syltherm	0.15	0.63
		VOC	0.13	0.55
MGBT01	CTL II MSS Fugitives (5)	Cl <sub>2</sub>	0.03	0.01
	r agilives (5)	HCI	0.05	0.01
		PM	0.05	0.01
		PM <sub>10</sub>	0.03	0.01
		PM <sub>2.5</sub>	0.02	0.01
GBE001	Distillation HTF Heater	со	0.90	3.93
	ricator	NO <sub>x</sub>	0.39	1.72
		PM	0.08	0.33
		PM <sub>10</sub>	0.08	0.33
		PM <sub>2.5</sub>	0.08	0.33
		SO <sub>2</sub>	0.03	0.03
		VOC	0.06	0.26
GBE002	Distillation HTF Expansion Vessel	Syltherm	0.08	0.02
MGBE02	Distillation HTF	Syltherm	0.03	0.01

	Expansion Vessel MSS Emissions			
GBT002	CTL II Vent	Cl <sub>2</sub>	1.35	1.18
	Scrubber	HCI	4.15	1.22
		PM	0.60	0.87
		PM <sub>10</sub>	0.60	0.87
		PM <sub>2.5</sub>	0.60	0.87
		VOC	2.20	2.32
MGBT02	CTL II Vent Scrubber	Cl <sub>2</sub>	0.02	0.02
	MSS Emissions	HCI	0.01	0.02
		PM	0.01	0.01
		PM <sub>10</sub>	0.01	0.01
		PM <sub>2.5</sub>	0.01	0.01
		VOC	6.03	0.45
GBT003	CTL II HTF Heater	со	0.39	1.71
		NO <sub>x</sub>	0.46	2.03
		PM	0.04	0.15
		PM <sub>10</sub>	0.04	0.15
		PM <sub>2.5</sub>	0.04	0.15
		SO <sub>2</sub>	0.01	0.01
		VOC	0.03	0.11
GBT004	East Package Boiler	со	1.53	6.71
		NO <sub>x</sub>	0.67	2.93
		PM	0.14	0.61
		PM <sub>10</sub>	0.14	0.61
		PM <sub>2.5</sub>	0.14	0.61

		SO <sub>2</sub>	0.05	0.06
		VOC	0.10	0.44
GBT006	Emergency Generator	со	3.70	0.53
	Contractor	NO <sub>x</sub>	14.10	2.03
		РМ	0.40	0.06
		PM <sub>10</sub>	0.40	0.06
		PM <sub>2.5</sub>	0.40	0.06
		SO <sub>2</sub>	4.50	0.65
		VOC	0.40	0.06
GBT007	Emergency Generator Diesel Fuel Storage Tank	VOC	0.01	0.01
GBE003	Product Bag House	See Footnote (6)	1.45	4.53
		РМ	0.41	1.09
		PM <sub>10</sub>	0.41	1.09
		PM <sub>2.5</sub>	0.41	1.09
		VOC	0.08	0.24
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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) CO - carbon monoxide

Cl<sub>2</sub> - chlorine

HCI - hydrogen chlorideNO<sub>x</sub> - total oxides of nitrogen

PM - particulate matter, suspended in the atmosphere, including  $PM_{10}$  and  $PM_{2.5}$  - particulate matter equal to or less than 10 microns in diameter, including  $PM_{2.5}$ 

PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter

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

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

NaOH - sodium hydroxide H<sub>2</sub>SO<sub>4</sub> - sulfuric acid

- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) These are non-VOC hydrocarbon emissions.

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⊢micci∩n	SOURCES -	· Maximum	AllOWANIA	⊢micci∩n	Rates

Date: January 22, 2014	
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