#### Permit Number 5252

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	ission Point No. (1) Source Name (2) Air Contaminant Name (3)		Emission Rates	
140. (1)			lbs/hour	TPY (4)
102 Clay Treater Decon.	Clay Treater Decon. Heater HS-102 (3	NO <sub>x</sub>	0.39	1.71
	MMBtu/hr)	со	0.87	0.54
		VOC	0.04	0.16
		SO <sub>2</sub>	0.06	0.24
		PM <sub>10</sub>	0.17	0.72
103	Benzene Recovery Column Reboiler HS-103	NO <sub>x</sub>	10.95	47.98
		СО	23.3	1.03
		VOC	0.05	0.20
		SO <sub>2</sub>	0.17	0.26
		PM <sub>10</sub>	0.39	1.70
104	EB Recovery Column Reboiler HS-104	NO <sub>x</sub>	7.22	25.89
	reseller rie 10 r	СО	40.84	25.89 34.51
		VOC	0.72	3.15
		SO <sub>2</sub>	0.28	0.47
		PM <sub>10</sub>	0.63	2.75
201/219	Superheaters HS-201 and 219	NO <sub>x</sub>	42.01	166.31
		СО	84.08	48.57
		VOC	1.28	5.62
		SO <sub>2</sub>	1.03	4.51
		PM <sub>10</sub>	0.06	0.25

213	Tank MS-213	VOC	0.01	0.01
220	Superheater HS-220 (170 MMBtu/hr)	NO <sub>x</sub>	2.16	7.63
	WWW.Bta/Til)	СО	6.11	19.08
		VOC	0.54	2.24
		SO <sub>2</sub>	0.44	1.84
		PM <sub>10</sub>	0.58	2.46
		NH <sub>3</sub>	1.01	4.44
301-A	Boiler HB-301-A	NO <sub>x</sub>	6.15	26.94
		СО	59.09	36.98
		VOC	0.37	1.61
		SO <sub>2</sub>	0.62	1.16
		PM <sub>10</sub>	1.79	7.82
		PM <sub>2.5</sub>	1.79	7.82
301-B	Boiler HB-301-B	NO <sub>x</sub>	6.15	26.94
		СО	59.09	36.98
		VOC	1.22	5.18
		SO <sub>2</sub>	0.69	1.16
		PM <sub>10</sub>	1.16	5.06
		PM <sub>2.5</sub>	1.16	5.06
301-S	Boiler HB-301-S	NO <sub>x</sub>	53.14	205.00
		СО	61.46	4.60
		VOC	1.26	4.86
		SO <sub>2</sub>	0.58	1.16
		PM <sub>10</sub>	0.45	1.75
302	Tank MT-302	VOC	0.01	0.01

307	Tank MT-307	VOC	0.01	0.01
308	Tank MT-308	VOC	0.01	0.01
331	Wastewater Clarifier GV- 331	VOC	0.01	0.01
601	TDA Reactor Feed Heater HS-601	NO <sub>x</sub>	1.30	5.68
	110 001	СО	3.60	0.04
		VOC	0.02	0.09
		SO <sub>2</sub>	0.02	0.03
		PM <sub>10</sub>	0.19	0.83
1301	Boiler HB-1301-P	NO <sub>x</sub>	17.83	66.10
		СО	54.05	47.22
		VOC	1.39	5.11
		SO <sub>2</sub>	0.25	0.52
		PM <sub>10</sub>	0.51	1.88
CTOTANK and CTOVENT	Catalytic Thermal Oxidizers	NO <sub>x</sub>	0.81	1.48
01012111	S/MailE818	СО	6.95	12.70
		VOC	16.40	2.20
		SO <sub>2</sub>	0.01	0.01
		PM <sub>10</sub>	0.09	0.17
Diesel Tanks	Diesel Tanks	VOC	0.11	0.03
FL	Flare	NO <sub>x</sub>	1.47	6.44
		СО	7.49	32.80
		VOC	0.60	2.63
		SO <sub>2</sub>	0.01	0.01
FUG-MSS	Fugitive MSS (5)	VOC	11.95	0.61
		PM <sub>10</sub>	0.10	<0.01

		C <sub>6</sub> H <sub>6</sub>	4.02	0.28
FUG-BZ	Benzene Fugitives (5)	VOC	1.17	5.14
FUG-HRVOC	Ethylene Fugitives (5)	VOC (6)	0.22	0.95
		Ethylene	0.21	0.91
FUG-NH3	Ammonia Fugitives (5)	NH <sub>3</sub>	0.03	0.13
FUG-VOC	VOC Fugitives (5)	VOC	2.10	9.19
GY308	GY308 Condensate Deaerator	VOC	0.70	0.33
LR-1	Loading Rack	VOC	4.35	0.17

	Maintenance, S	tart-Up, And Shutdown Emis	ssions	
115	Emergency Generator	NO <sub>x</sub>	12.09	0.67
		СО	2.61	0.15
		VOC	0.96	0.06
		SO <sub>2</sub>	0.80	0.04
		PM <sub>10</sub>	0.86	0.06
220	Superheater HS-220 Start- up and Shutdown	NO <sub>x</sub>	10.20	1.84
	up and Shatdown	СО	42.79	7.70
		VOC	0.54	0.10
		SO <sub>2</sub>	0.44	0.08
		PM <sub>10</sub>	0.58	0.10
802A, 802B, 802S, and 805	Firewater Pumps	NO <sub>x</sub>	42.16	3.37
0023, una 003	CUO	СО	9.08	0.73
		VOC	3.36	0.27
		SO <sub>2</sub>	2.80	0.22
		PM <sub>10</sub>	3.00	0.24
FL	Flare MSS	NO <sub>x</sub>	8.44	0.10
		СО	60.96	0.71
		PM <sub>10</sub>	3.00	0.24
		VOC (6)	141.66	1.82
		C <sub>6</sub> H <sub>6</sub>	63.87	1.22
		Ethylene	70.00	0.48

Hazardous Air Pollutants (HAP) Emission Limitations			
SITEWIDE	Individual HAP	9.90	
	All HAPs Combined	24.90	

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

NO<sub>x</sub> - total oxides of nitrogen

 $SO_2$  - sulfur dioxide  $NH_3$  ammonia  $C_6H_6$  benzene

 $PM_{10}$  - total particulate matter equal to or less than 10 microns in diameter, including  $PM_{2.5}$ , as

represented

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

CO - carbon monoxide

HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40

Code of Federal Regulations Part 63, Subpart C

(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) The allowables for VOC includes the allowables for the speciated organic compounds.

Date: June 4, 2013
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