Permit Number 46307

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	<u>Emissio</u>	n Rates *
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**
EP-5	Plant Flare		VOC NO _x SO ₂ CO	194.00 29.29 0.01 149.24	124.88 11.52 0.01 58.69
EP-H21	No. 1 Dehydro Alcorn Heater	NO _x SO ₂ PM CO	VOC 9.60 0.09 1.19 13.18	0.86 42.05 0.41 5.22 57.71	3.78
EP-1B905	Off Gas Incinerators 1. Air Heater 1B-902 2. No. 1 Dehydro Reactor 1B 3. Generator Turbine 1G-908 4. Generator Turbine 1G-908	5	VOC NO _x SO ₂ PM CO	2.97 74.41 0.42 4.20 28.50	13.04 325.90 1.87 18.41 62.40
EP-4	OXO Incinerator/Boiler	NO _x NO _x (SO ₂ PM CO	VOC 32.94 5) 0.09 1.19 13.18	0.86 144.28 9.60 0.41 5.22 57.71	3.78 42.05
EP-H10	No. 1 Butylene Heater	NO _x SO ₂ PM CO	VOC 5.15 NO _x (5) 0.03 0.41 4.53	0.30 22.57 3.30 0.14 1.79 19.84	1.30 14.45

Emission	Source	Air	Contaminant	<u>Emission</u>	Rates *
Point No. (1)	Name (2)		Name (3)	lb/hr	TPY**
EP-H11	No. 1 C.E. Steam Superhe	eater NO _x SO ₂ NO _x (PM CO	VOC 15.55 0.06 5) 0.71 7.82	0.51 68.11 0.24 5.70 3.10 34.27	2.24 24.97
EP-H13	No. 2 OXO Butylene Heat	er NO _x NO _x (SO ₂ PM CO	VOC 6.40 5) 0.03 0.41 4.53	0.30 28.02 3.30 0.14 1.79 19.84	1.30 14.45
EP-H14	No. 2 C.E. Steam Superhe	eater NO _x NO _x (SO ₂ PM CO	VOC 22.79 5) 0.06 0.71 7.82	0.51 99.80 5.70 0.24 3.10 34.27	2.24 24.97
12DG-15	Boilerhouse Emergency Generator	SO ₂ PM CO	VOC NO _x 0.85 0.91 2.77	0.12 12.87 0.36 0.39 1.18	0.05 5.47
3DG-14	OXO Emergency Generat	or NO _x SO ₂ PM CO	VOC 4.62 0.31 0.33 1.00	0.04 1.96 0.13 0.14 0.42	0.02
20G-437	Dock Pump Engine 20G-4	37 NO _x SO ₂ PM CO	VOC 1.13 0.72 0.11 0.28	0.06 0.48 0.31 0.05 0.12	0.03

Emission	Source	Air Contaminant	Emission	n Rates *
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**
31G-2350			0.09 3.16 0.64 0.69 0.25	0.09
F-CT-1	Cooling Tower CT-1	VOC	50.40	22.08
F-CT-10	Cooling Tower CT-10	VOC	10.00	1.47
F-CT-11	Cooling Tower CT-11	VOC	10.00	0.55
F-CT-14	Cooling Tower CT-14	VOC	23.50	10.30
F-CT-3	Cooling Tower CT-3	VOC	24.40	10.67
F-CT-7	Cooling Tower CT-7	VOC	10.00	2.76
CAT-TFR	Catalyst Transfer Hopper	PM	0.01	<0.01
CAT-BH	Catalyst Baghouse	РМ	<0.01	<0.01
F-TTR	Truck Rack Loading Facility	VOC	6.47	0.26
T-32	No. 32 Tank	VOC	0.08	<0.01
T-33	No. 33 Tank	VOC	0.58	0.01
T-34	No. 34 Tank	VOC	0.29	0.02
T-69-1	No. 69-1 Tank	VOC	0.29	<0.01
T-81	No. 81 Tank	VOC	0.58	0.05
T-82	No. 82 Tank	VOC	1.13	0.07

Emission	Source	Air Contaminant	<u>Emissior</u>	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**	
T-83	No. 83 Tank	VOC	1.13	0.04	
T-84	No. 84 Tank	VOC	0.29	0.02	
T-85	No. 85 Tank	VOC	0.29	<0.01	
T-86	No. 86 Tank	VOC	0.58	0.02	
T-155	TEA Storage Tank	VOC	<0.01	<0.01	
F-10A	Oil Separation	VOC	0.17	0.76	
1A	Isomerization Unit- Fugitives (4) VOC	2.70	11.83	
1B	Hydrogenation Unit - Fugitives	0.35	VOC	0.08	
1C	Dimethyl Formamide Unit Fugitives (4)	VOC	10.15	44.48	
1D	Diiso Unit - Fugitives (4)	VOC	2.91	12.72	
2A	Fugitive Area No. 2 (4)	VOC	5.10	22.35	
2B	Fugitive Area No. 2B (4)	VOC	2.30	10.08	
FUG-2C	Tank Car Loading Fugitives (4) VOC	1.38	6.06	
FUG-2D	Truck Rack Loading Fugitives	(4) VOC	0.41	1.80	
FUG-3	Fugitive Area No. 3 (4)	VOC	6.18	27.05	
FUG-4	Fugitive Area No. 4 (4)	VOC	4.61	20.18	
FUG-5	Fugitive Area No. 5 (4)	VOC	0.10	0.45	

Emission	Source	Air Contaminant		Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY**	
L-5	Ship and Barge Loading Dock Fugitives (4)	< VOC	0.26	1.13	

- (1) Emission point identification either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

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.

CO - carbon monoxide

- (4) Emission rate is an estimate and is only enforceable through compliance with the applicable Special
 - Condition(s) and permit application representations.
- (5) This is the emission rate for NO_x once the emission control is installed no later than March 1, 2007.
- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

<u>24</u> Hrs/day <u>7</u> Days/week _	<u>52</u> Weeks/year or Hrs/year
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** Compliance with annual emission limits is based on a rolling 12-month period.

Dated May 15, 2006