## Permit Number 22088

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)
BP	Brine Pit Losses	VOC	0.55	2.42
F-1	Degassing Flare No. 1	со	0.06	0.25
		NOx	0.03	0.13
		SO <sub>2</sub>	0.01	0.01
		VOC	0.01	0.06
F-2	Degassing Flare	СО	0.06	0.25
	No. 2	NO <sub>x</sub>	0.03	0.13
		SO <sub>2</sub>	0.01	0.01
		VOC	0.01	0.06
G-1	Area 3 Generator	со	0.79	0.04
		NO <sub>x</sub>	3.66	0.18
		РМ	0.26	0.01
		PM <sub>10</sub>	0.26	0.01
		PM <sub>2.5</sub>	0.26	0.01
		SO <sub>2</sub>	0.24	0.01
		VOC	0.29	0.01
G-2	Area 4 Generator	со	0.79	0.04
		NO <sub>x</sub>	3.66	0.18
		РМ	0.26	0.01
		PM <sub>10</sub>	0.26	0.01
		PM <sub>2.5</sub>	0.26	0.01
		SO <sub>2</sub>	0.24	0.01
		VOC	0.29	0.01

G-3	Area 8 Generator	СО	0.79	0.04
		NO <sub>x</sub>	3.66	0.18
		РМ	0.26	0.01
		PM <sub>10</sub>	0.26	0.01
		PM <sub>2.5</sub>	0.26	0.01
		SO <sub>2</sub>	0.24	0.01
		VOC	0.29	0.01
FE-1	Firewater Engine	СО	4.13	0.21
		NO <sub>x</sub>	18.00	0.90
		РМ	0.53	0.03
		PM <sub>10</sub>	0.53	0.03
		PM <sub>2.5</sub>	0.53	0.03
		SO <sub>2</sub>	6.07	0.3
		VOC	0.53	0.03
H-1	Water Heater	СО	0.29	1.26
		NO <sub>x</sub>	0.34	1.5
		РМ	0.03	0.11
		PM <sub>10</sub>	0.03	0.11
		PM <sub>2.5</sub>	0.03	0.11
		SO <sub>2</sub>	0.01	0.01
		VOC	0.02	0.08
H-3	Water Heater	СО	0.29	1.26
		NO <sub>x</sub>	0.34	1.5
		РМ	0.03	0.11
		PM <sub>10</sub>	0.03	0.11
		PM <sub>2.5</sub>	0.03	0.11
		SO <sub>2</sub>	0.01	0.01
		VOC	0.02	0.08
H-4	Water Heater	со	0.29	1.26

Emission Sources - Maximum Allowable Emission Rates

		NO <sub>x</sub>	0.34	1.5
		PM	0.03	0.11
		PM <sub>10</sub>	0.03	0.11
		PM <sub>2.5</sub>	0.03	0.11
		SO <sub>2</sub>	0.01	0.01
		VOC	0.02	0.08
H-5	N Ethylene Regen	СО	0.28	1.23
	Heater	NO <sub>x</sub>	0.33	1.46
		PM	0.03	0.11
		PM <sub>10</sub>	0.03	0.11
		PM <sub>2.5</sub>	0.03	0.11
		SO <sub>2</sub>	0.01	0.01
		VOC	0.02	0.08
H-7	N Propylene Regen	СО	0.22	0.97
	Heater	NO <sub>x</sub>	0.26	1.16
		PM	0.02	0.09
		PM <sub>10</sub>	0.02	0.09
		PM <sub>2.5</sub>	0.02	0.09
		SO <sub>2</sub>	0.01	0.01
		VOC	0.02	0.06
H-8	S Propylene Regen	СО	0.12	0.54
	Heater	NO <sub>x</sub>	0.15	0.64
		PM	0.01	0.05
		PM <sub>10</sub>	0.01	0.05
		PM <sub>2.5</sub>	0.01	0.05
		SO <sub>2</sub>	0.01	0.01
		VOC	0.01	0.04
H-10	S Ethylene Regen	СО	0.33	1.44
Heater	nealer	NO <sub>x</sub>	0.39	1.72

		РМ	0.03	0.13
	PM <sub>10</sub>	0.03	0.13	
		PM <sub>2.5</sub>	0.03	0.13
		SO <sub>2</sub>	0.01	0.01
		VOC	0.02	0.09
H-11	Ethylene Regen	NO <sub>x</sub>	0.09	0.39
	Heater	СО	0.77	3.37
		VOC	0.05	0.22
		РМ	0.07	0.31
		PM <sub>10</sub>	0.07	0.31
		PM <sub>2.5</sub>	0.07	0.31
		SO <sub>2</sub>	0.01	0.04
H-12	Ethylene Regen	NO <sub>x</sub>	0.09	0.20
	Heater	со	0.77	1.69
		voc	0.05	0.11
		РМ	0.07	0.15
		PM <sub>10</sub>	0.07	0.15
		PM <sub>2.5</sub>	0.07	0.15
		SO <sub>2</sub>	0.01	0.02
H-13	Propane Regen Gas	со	2.11	9.24
	Heater	NO <sub>x</sub>	0.26	1.14
		РМ	0.04	0.16
		PM <sub>10</sub>	0.04	0.16
		PM <sub>2.5</sub>	0.04	0.16
		SO <sub>2</sub>	0.01	0.01
		VOC	0.03	0.12
WELL-GAS	Well Degassing	VOC	0.71	3.11
FUG-ETHYL	FUG-ETHYL (5)	voc	2.40	10.53
DES-MSS	Desiccant Dehy	VOC	1.39	0.01

	MSS			
SUL-MSS	Sulfur Treater MSS	voc	1.72	0.01
FUG-LOAD	Loading emissions	voc	3.33	3.28
FUG-TERM	Fugitive emissions	VOC	116.91	512.08

- (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<sub>2</sub> sulfur dioxide
  - PM total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented
  - PM<sub>10</sub> total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented
  - PM<sub>2.5</sub>- particulate matter equal to or less than 2.5 microns in diameter
  - CO carbon monoxide
- (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.

Date: <u>April 6, 2016</u>