## Permit Number 55464

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. (1)	Source Name (2)	Air Contaminant	Emission Rates	
		Name (3)	lbs/hour	TPY (4)
	Hourly Emission Rates for Ph	ase I (Import/Export Op	perations)	
B-1A	Johnstone Heaters	NO <sub>x</sub>	1.71	-
	A Johnstone Heaters 155 MMBtu/hr  B Johnstone Heaters 155 MMBtu/hr	СО	2.79	-
		VOC	0.31	-
		PM <sub>10</sub>	1.09	-
		SO <sub>2</sub>	0.78	-
		H <sub>2</sub> SO <sub>4</sub>	0.06	-
B-1B		NO <sub>x</sub>	1.71	-
	155 MMBtu/hr	СО	2.79	-
		VOC	0.31	-
		PM <sub>10</sub>	1.09	-
		SO <sub>2</sub>	0.78	-
		H <sub>2</sub> SO <sub>4</sub>	0.06	-
B-1C		NO <sub>x</sub>	1.71	-
		СО	2.79	-
		VOC	0.31	-
		PM <sub>10</sub>	1.09	-
		SO <sub>2</sub>	0.78	-
		H <sub>2</sub> SO <sub>4</sub>	0.06	-
B-1D	Johnstone Heaters 155 MMBtu/hr	NO <sub>x</sub>	1.71	-
		СО	2.79	-
		VOC	0.31	-
		PM <sub>10</sub>	1.09	-
		SO <sub>2</sub>	0.78	-

		H <sub>2</sub> SO <sub>4</sub>	0.06	-
B-1E	Johnstone Heaters	NO <sub>x</sub>	1.71	-
	155 MMBtu/hr	СО	2.79	-
		VOC	0.31	-
		PM <sub>10</sub>	1.09	-
		SO <sub>2</sub>	0.78	-
		H <sub>2</sub> SO <sub>4</sub>	0.06	-
B-1F	Johnstone Heaters	NO <sub>x</sub>	1.71	-
	155 MMBtu/hr	СО	2.79	-
		VOC	0.31	-
		PM <sub>10</sub>	1.09	-
		SO <sub>2</sub>	0.78	-
		H <sub>2</sub> SO <sub>4</sub>	0.06	-
B-1G	Johnstone Heaters	NO <sub>x</sub>	1.71	-
	155 MMBtu/hr	СО	2.79	-
		VOC	0.31	-
		PM <sub>10</sub>	1.09	-
		SO <sub>2</sub>	0.78	-
		H <sub>2</sub> SO <sub>4</sub>	0.06	-
B-1H	Johnstone Heaters	NO <sub>x</sub>	1.71	-
	155 MMBtu/hr	СО	2.79	-
		VOC	0.31	-
		PM <sub>10</sub>	1.09	-
		SO <sub>2</sub>	0.78	-
		H <sub>2</sub> SO <sub>4</sub>	0.06	-
B-1J	Johnstone Heaters	NO <sub>x</sub>	1.71	-
	155 MMBtu/hr	СО	2.79	-
		VOC	0.31	-
		PM <sub>10</sub>	1.09	-
B-1J	Johnstone Heaters 155 MMBtu/hr	SO <sub>2</sub>	0.78	-

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		H <sub>2</sub> SO <sub>4</sub>	0.06	-
K-7A	Waukesha	NO <sub>x</sub>	0.61	-
	1,380 bhp	СО	6.08	-
		VOC	0.15	-
		PM <sub>10</sub>	0.10	-
		SO <sub>2</sub>	0.01	-
		H <sub>2</sub> SO <sub>4</sub>	<0.01	-
K-7B	Waukesha	NO <sub>x</sub>	0.61	-
	1,380 bhp	СО	6.08	-
		VOC	0.15	-
		PM <sub>10</sub>	0.10	-
		SO <sub>2</sub>	0.01	-
		H <sub>2</sub> SO <sub>4</sub>	<0.01	-
K-7C	Waukesha	NO <sub>x</sub>	0.61	-
	1,380 bhp	СО	6.08	-
		VOC	0.15	-
		PM <sub>10</sub>	0.10	-
		SO <sub>2</sub>	0.01	-
		H <sub>2</sub> SO <sub>4</sub>	<0.01	-
FLR (6)	Flare	NO <sub>x</sub>	0.80	-
	Normal Operations (Pilot + Purge Gas)	СО	4.00	-
	, , ,	VOC	<0.01	-
		PM <sub>10</sub>	<0.01	-
		SO <sub>2</sub>	0.01	-
		H <sub>2</sub> SO <sub>4</sub>	<0.01	-
FLR	Flare	NO <sub>x</sub>	67.93	-
	Export Operations	СО	367.52	-
FLR	Flare	VOC	11.14	-
	Export Operations	PM <sub>10</sub>	<0.01	-
		SO <sub>2</sub>	0.67	-

		H <sub>2</sub> SO <sub>4</sub>	0.05	-
	Annual Emission Rates for F	Phase I (Import/Ex	port Operations	s)
B-1 (A-H, J) K-7 (A-C) FLR	Annual Emission Rate for Heaters,	NO <sub>x</sub>	-	23.10
	Compressors, and Flare	СО	-	80.00
		VOC	-	4.20
		PM <sub>10</sub>	-	6.30
		SO <sub>2</sub>	-	2.10
		H <sub>2</sub> SO <sub>4</sub>	-	0.16
Z-10 (7)	Emergency Air Compressor	NO <sub>x</sub>	1.32	0.07
	200 bhp	СО	1.15	0.06
		VOC	0.50	0.25
		PM <sub>10</sub>	0.07	<0.01
		SO <sub>2</sub>	0.41	0.02
		H <sub>2</sub> SO <sub>4</sub>	0.03	<0.01
Z-10TK	Diesel Tank for Emergency Air Compressor (EPN: Z-10) 100 gallon	VOC	0.52	<0.01
FUG (5)	Fugitives	VOC	0.16	0.71
FUG-BOGLIQ BOG Liquefication System Fugitives (5)		VOC	0.01	0.05
	Emission Rates for P	hase II (Import Op	erations)	
Z-210 (7)	Emergency Air Compressor 400 bhp	NO <sub>x</sub>	3.12	0.16
		СО	0.78	0.04
		VOC	0.11	0.01
		PM <sub>10</sub>	0.13	0.01
		SO <sub>2</sub>	0.54	0.03
Z-210 (7)	Emergency Air Compressor 400 bhp	H₂SO₄	0.04	<0.01
Z-210TK	Diesel Tank for the Emergency Air Compressor (EPN: Z-210) 300 gallon	VOC	0.15	<0.01
FUG-PHII (5)	Phase II Fugitives	VOC	0.27	1.18
	Ancillary Equipmer	nt for Phase I and	II	
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EG-1 (7)	Emergency Generator Process Area	NO	7.24	0.36
EG-1 (1)	755 bhp	NO <sub>x</sub>		
		СО	0.90	0.04
		VOC	0.10	0.01
		PM <sub>10</sub>	0.08	<0.01
		SO <sub>2</sub>	0.31	0.02
		$H_2SO_4$	0.02	<0.01
EG-1TK	Diesel Tank for the Emergency Generator Process Area (EPN: EG-1) 400 gallon	VOC	0.40	<0.01
EG-ADMIN (7)	Emergency Generator Admin. Area	$NO_x$	3.12	0.16
	399 bhp	СО	0.19	0.01
		VOC	0.04	<0.01
		PM <sub>10</sub>	0.03	<0.01
		SO <sub>2</sub>	0.82	0.04
		H <sub>2</sub> SO <sub>4</sub>	0.06	<0.01
EG-ADMINTK	Diesel Tank for the Emergency Generator Admin. Area (EPN: EG-ADMIN) 300 gallon	VOC	0.48	<0.01
EG-DOCK (7)	Emergency Generator Dock Area	NO <sub>x</sub>	2.72	0.14
364	364 bhp	СО	0.28	0.01
		VOC	0.04	<0.01
		PM <sub>10</sub>	0.03	<0.01
		SO <sub>2</sub>	0.75	0.04
		H <sub>2</sub> SO <sub>4</sub>	0.06	<0.01
EG-DOCKTK	Diesel Tank for the Emergency Generator Dock Area (EPN: EG-DOCK) 200 gallon	VOC	0.52	<0.01
FWP (7)	Firewater Pump	NO <sub>x</sub>	12.19	0.61
	660 bhp	СО	0.55	0.03
		VOC	0.07	<0.01
		PM <sub>10</sub>	1.24	0.06

		SO <sub>2</sub>	0.27	0.01
		H <sub>2</sub> SO <sub>4</sub>	0.02	<0.01
FWPTK	Diesel Tank for the Firewater Pump (EPN: FWP) 830 gallon	VOC	0.46	<0.01

- (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

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

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

CO - carbon monoxide

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) Normal flare emissions are based on the pilot gas combustion emissions for 8,760 hours per year (hr/yr).
- (7) Emission rates are based upon and the facilities limited to 100 hr/yr.

Date:			