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 Name (3)	Emission Rates	
			lbs/hour (4)	TPY (5)
	Hourly Emission Rates for Phas	se I (Import/Export Op	erations)	
B-1A	Johnstone Heaters 155 MMBtu/hr	NO _x	1.71	-
	100 WWDta/III	СО	2.79	-
		CO (SS)	3.63	-
		VOC	0.31	-
		PM ₁₀	1.09	-
		SO ₂	0.78	-
		H ₂ SO ₄	0.06	-
B-1B	Johnstone Heaters 155 MMBtu/hr	NO _x	1.71	-
		СО	2.79	-
		CO (SS)	3.63	-
		VOC	0.31	-
		PM ₁₀	1.09	-
		SO ₂	0.78	-
		H ₂ SO ₄	0.06	-
B-1C	Johnstone Heaters 155 MMBtu/hr	NO _x	1.71	-
		СО	2.79	-
		CO (SS)	3.63	-
		VOC	0.31	-
		PM ₁₀	1.09	-
		SO ₂	0.78	-
		H ₂ SO ₄	0.06	-
B-1D	Johnstone Heaters 155 MMBtu/hr	NO _x	1.71	-
		CO	2.79	-

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		CO (SS)	3.63	-
		VOC	0.31	-
		PM ₁₀	1.09	-
		SO ₂	0.78	-
		H ₂ SO ₄	0.06	-
B-1E	Johnstone Heaters	NO _x	1.71	-
	155 MMBtu/hr	СО	2.79	-
		CO (SS)	3.63	-
		VOC	0.31	-
		PM ₁₀	1.09	-
		SO ₂	0.78	-
		H ₂ SO ₄	0.06	-
B-1F	Johnstone Heaters	NO _x	1.71	-
	155 MMBtu/hr	СО	2.79	-
		CO (SS)	3.63	-
		VOC	0.31	-
		PM ₁₀	1.09	-
		SO ₂	0.78	-
		H ₂ SO ₄	0.06	-
B-1G	Johnstone Heaters	NO _x	1.71	-
	155 MMBtu/hr	СО	2.79	-
		CO (SS)	3.63	-
		VOC	0.31	-
		PM ₁₀	1.09	-
		SO ₂	0.78	-
		H ₂ SO ₄	0.06	-
B-1H	Johnstone Heaters	NO _x	1.71	-
	155 MMBtu/hr	СО	2.79	-
		CO (SS)	3.63	-
		VOC	0.31	-

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		PM ₁₀	1.09	-
		SO ₂	0.78	-
		H ₂ SO ₄	0.06	-
B-1J	Johnstone Heaters	NO _x	1.71	-
	155 MMBtu/hr	СО	2.79	-
		CO (SS)	3.63	-
		VOC	0.31	-
		PM ₁₀	1.09	-
		SO ₂	0.78	-
		H ₂ SO ₄	0.06	-
K-7A	Waukesha	NO _x	0.61	-
	1,380 bhp	NO _x (SS)	3.00	-
		СО	6.08	-
		VOC	0.15	-
		PM ₁₀	0.10	-
		SO ₂	0.01	-
		H ₂ SO ₄	<0.01	-
K-7B	Waukesha	NO _x	0.61	-
	1,380 bhp	NO _x (SS)	3.00	-
		СО	6.08	-
		VOC	0.15	-
		PM ₁₀	0.10	-
		SO ₂	0.01	-
		H ₂ SO ₄	<0.01	-
K-7C	Waukesha	NO _x	0.61	-
	1,380 bhp	NO _x (SS)	3.00	-
		СО	6.08	-
		VOC	0.15	-
		PM ₁₀	0.10	-
		SO ₂	0.01	-

		H ₂ SO ₄	<0.01	-
FLR (7)	Flare	NO _x	0.80	-
	Normal Operations (Pilot + Purge Gas)	СО	4.00	-
	,	VOC	<0.01	-
		PM ₁₀	<0.01	-
		SO ₂	0.01	-
		H ₂ SO ₄	<0.01	-
FLR	Flare	NO _x	67.93	-
	Export Operations	СО	367.52	-
		VOC	11.14	-
		PM ₁₀	<0.01	-
		SO ₂	0.67	-
		H ₂ SO ₄	0.05	-
FLR	Flare Gaseous Fuel Venting MSS	NO _x	0.81	-
		СО	4.40	-
		VOC	0.70	-
		SO ₂	0.01	-
	Annual Emission Rates for	Phase I (Import/Ex	port Operations)
B-1 (A-H, J)	Annual Emission Rate for Heaters,	NO _x	-	23.10
K-7 (A-C) FLR	Compressors, and Flare	СО	-	80.01
		VOC	-	4.50
		PM ₁₀	-	6.30
		SO ₂	-	2.10
		H ₂ SO ₄	-	0.16
B-1 (A-H, J)	Annual SS Emission Rate for Heaters and Compressors	NO _x	-	0.48
K-7 (A-C)		СО	-	0.61
		VOC	-	0.012
		PM ₁₀	-	0.01
		SO ₂	-	<0.01
		H ₂ SO ₄	-	<0.01

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Z-10 (8)	Emergency Air Compressor 200 bhp	NO _x	1.32	0.07
		СО	1.15	0.06
		VOC	0.50	0.25
		PM ₁₀	0.07	<0.01
		SO ₂	0.41	0.02
		H₂SO₄	0.03	<0.01
Z-10TK	Diesel Tank for Emergency Air Compressor (EPN: Z-10) 100 gallon	VOC	0.52	<0.01
FUG (6)	Fugitives	VOC	0.16	0.71
FUG-BOGLIQ (6)	BOG Liquefication System Fugitives	VOC	0.01	0.05
	Emission Rates for Ph	nase II (Import Op	erations)	
Z-210 (8)	Emergency Air Compressor 400 bhp	NO _x	3.12	0.16
		СО	0.78	0.04
		VOC	0.11	0.01
		PM ₁₀	0.13	0.01
		SO ₂	0.54	0.03
		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 (6)	Phase II Fugitives	VOC	0.27	1.18
	Ancillary Equipmen	t for Phase I and	II	
EG-1 (8)	Emergency Generator Process Area 755 bhp	NO _x	7.24	0.36
		СО	0.90	0.04
		VOC	0.10	0.01
		PM ₁₀	0.08	<0.01
		SO ₂	0.31	0.02
		H ₂ SO ₄	0.02	<0.01
EG-1TK Project Number: 187	Diesel Tank for the Emergency Generator Process Area (EPN: EG-1) 400 gallon	VOC	0.40	<0.01

EG-ADMIN (8)	Emergency Generator Admin. Area 399 bhp	NO _x	3.12	0.16
		СО	0.19	0.01
		VOC	0.04	<0.01
		PM ₁₀	0.03	<0.01
		SO ₂	0.82	0.04
		H ₂ SO ₄	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 (8)	Emergency Generator Dock Area	NO_x	2.72	0.14
	364 bhp	СО	0.28	0.01
		VOC	0.04	<0.01
		PM ₁₀	0.03	<0.01
		SO ₂	0.75	0.04
		H ₂ SO ₄	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 (8)	Firewater Pump 660 bhp	NO _x	12.19	0.61
		СО	0.55	0.03
		VOC	0.07	<0.01
		PM ₁₀	1.24	0.06
		SO ₂	0.27	0.01
		H ₂ SO ₄	0.02	<0.01
FWPTK	Diesel Tank for the Firewater Pump (EPN: FWP) 830 gallon	VOC	0.46	<0.01
MSS-FUG	Inherently Low Emitting Maintenance	NOx	0.02	<0.01
	Activities	СО	0.01	<0.01
		VOC	0.19	0.03
		PM	0.05	<0.01
		PM ₁₀	<0.01	<0.01

		PM _{2.5}	<0.01	<0.01
MSS-FUG-GFV	Gaseous Fuel Venting to Atmosphere	VOC	154	0.30

- (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_x - total oxides of nitrogen

SO₂ - sulfur dioxide

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

PM_{2.5} - total particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

H₂SO₄ - sulfuric acid

- (4) Planned startup and shutdown (SS) lbs/hour emissions for all pollutants are authorized even if not specifically identified as SS.
- (5) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. Annual emission rates for each source include planned SS emissions unless separately noted.
- (6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (7) Normal flare emissions are based on the pilot gas combustion emissions for 8,760 hours per year (hr/yr).
- (8) Emission rates are based upon and the facilities limited to 100 hr/yr.

Date: May 30, 2014	
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