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 Pha | se I (Import/Export Op | erations) | | |
| B-1A | Johnstone Heaters | NO _x | 1.71 | - | |
| | 155 MMBtu/hr | СО | 2.79 | - | |
| | | CO (SS) | 3.63 | - | |
| | | VOC | 0.31 | - | |
| | | PM ₁₀ | 1.09 | - | |
| | | PM _{2.5} | 1.09 | - | |
| | | SO ₂ | 0.78 | - | |
| | | H ₂ SO ₄ | 0.06 | - | |
| B-1B | Johnstone Heaters 155 MMBtu/hr | NO _x | 1.71 | - | |
| | | CO | 2.79 | - | |
| | | CO (SS) | 3.63 | - | |
| | | VOC | 0.31 | - | |
| | | PM ₁₀ | 1.09 | - | |
| | | PM _{2.5} | 1.09 | - | |
| | | SO ₂ | 0.78 | - | |
| | | H ₂ SO ₄ | 0.06 | - | |
| B-1C J | Johnstone Heaters 155 MMBtu/hr | NO_x | 1.71 | - | |
| | | СО | 2.79 | - | |
| | | CO (SS) | 3.63 | - | |
| | | VOC | 0.31 | - | |
| | | PM ₁₀ | 1.09 | - | |
| | | PM _{2.5} | 1.09 | - | |
| | | SO ₂ | 0.78 | - | |
| | | H ₂ SO ₄ | 0.06 | - | |

| | Johnstone Heaters | NO _x | 1.71 | - |
|--------------|-------------------|--------------------------------|------|---|
| | 155 MMBtu/hr | СО | 2.79 | - |
| | | CO (SS) | 3.63 | - |
| | | VOC | 0.31 | - |
| | | PM ₁₀ | 1.09 | - |
| | | PM _{2.5} | 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 | - |
| | | PM _{2.5} | 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 | - |
| | | PM _{2.5} | 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 | - |
| | | PM _{2.5} | 1.09 | - |
| | | SO ₂ | 0.78 | - |

| • | i | | | |
|------|-------------------|--------------------------------|-------|---|
| | | 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 | - |
| | | PM ₁₀ | 1.09 | - |
| | | PM _{2.5} | 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 | - |
| | | PM _{2.5} | 1.09 | - |
| | | SO ₂ | 0.78 | - |
| | | H ₂ SO ₄ | 0.06 | - |
| l l | Waukesha | NO _x | 0.61 | - |
| | 1,380 bhp | NO _x (SS) | 3.00 | - |
| | | СО | 6.08 | - |
| | | VOC | 0.15 | - |
| | | PM ₁₀ | 0.10 | - |
| | | PM _{2.5} | 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 | - |
| | | PM _{2.5} | 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 | - |
| | | PM _{2.5} | 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 | - |
| | (we say and | VOC | <0.01 | - |
| | | PM ₁₀ | <0.01 | - |
| | | PM _{2.5} | <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 | - |
| | | PM _{2.5} | <0.01 | - |
| | | SO ₂ | 0.67 | - |
| | | H ₂ SO ₄ | 0.05 | - |
| FLR | Flare | NO _x | 0.81 | - |
| | Gaseous Fuel Venting MSS | СО | 4.40 | - |
| | | VOC | 0.70 | - |
| | | SO ₂ | 0.01 | - |
| | Annual Emission Rates for Ph | nase I (Import/Exp | ort Operations |) |
| B-1 (A-H, J) | Annual Emission Rate for Heaters, | NO _x | - | 23.10 |
| K-7 (A-C) Compressors, and Flare | Compressors, and Flare | CO | - | 80.01 |

| | _ | | | |
|-------------------|---|--------------------------------|-----------|-------|
| | | VOC | - | 4.50 |
| | ! | PM ₁₀ | - | 6.30 |
| | | PM _{2.5} | - | 6.30 |
| | | SO ₂ | - | 2.10 |
| | | H ₂ SO ₄ | - | 0.16 |
| B-1 (A-H, J) | Annual SS Emission Rate for | NO _x | - | 0.48 |
| K-7 (A-C) | Heaters and Compressors | СО | - | 0.61 |
| | | VOC | - | 0.012 |
| | | PM ₁₀ | - | 0.01 |
| | | PM _{2.5} | - | 0.01 |
| | | SO ₂ | - | <0.01 |
| | | H ₂ SO ₄ | - | <0.01 |
| Z-10 (8) | Emergency Air Compressor 200 bhp | NO _x | 1.32 | 0.07 |
| | | СО | 1.15 | 0.06 |
| | | VOC | 0.50 | 0.025 |
| | | PM ₁₀ | 0.07 | <0.01 |
| | | PM _{2.5} | 0.06 | <0.01 |
| | | SO ₂ | 0.41 | 0.02 |
| | | H ₂ SO ₄ | 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 | NO _x | 2.63 | 0.13 |
| | 400 bhp | СО | 2.3 | 0.12 |
| | | VOC | 1.0 | 0.05 |
| | | PM ₁₀ | 0.13 | 0.01 |
| | | PM _{2.5} | 0.12 | 0.01 |
| | | SO ₂ | 0.82 | 0.04 |

| | | H ₂ SO ₄ | 0.06 | <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 Equipmer | nt for Phase I and | II | |
| EG-1 (8) | Emergency Generator Process Area | NO _x | 7.24 | 0.36 |
| | 755 bhp | СО | 0.90 | 0.04 |
| | | VOC | 0.10 | 0.01 |
| | | PM ₁₀ | 0.08 | <0.01 |
| | | PM _{2.5} | 0.07 | <0.01 |
| | | SO ₂ | 0.31 | 0.02 |
| | | H ₂ SO 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 (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 |
| | | PM _{2.5} | 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 364 bhp | NO _x | 2.72 | 0.14 |
| | | СО | 0.28 | 0.01 |
| | | VOC | 0.04 | <0.01 |
| | | PM ₁₀ | 0.03 | <0.01 |
| | | PM _{2.5} | 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 | NO _x | 12.19 | 0.61 |
| | 660 bhp | СО | 0.55 | 0.03 |
| | | VOC | 0.07 | <0.01 |
| | | PM ₁₀ | 1.24 | 0.06 |
| | | PM _{2.5} | 1.12 | 0.05 |
| | | 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 total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 - 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
 - Note PM, PM₁₀, and PM_{2.5} emission limits are not additive.
 - 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: | October 28, 2014 | |
|-------|------------------|--|
| | | |