Permit Numbers 19166 and PSD-TX-760M7

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 | Emission I | Rates * |
|----------------------|---|-------------------------|--------------|------------------|
| Point No. (1) | Name (2) | Name (3) | lb/hr (4) | TPY(5) |
| ** | • • | , , | | |
| | | | | |
| Turbines, Case I: Tu | urbines Only - No Duct Burner | Firing | | |
| 7A | 00 MW (ISO) Coo Turbino | NO _x | 102.00 | 385.44 |
| /A | 88 MW (ISO) Gas Turbine GE Model PG7111 (EA) | CO | 58.00 | 223.38 |
| | GE Model F G7111 (EA) | VOC | 0.90 | 3.94 |
| | | PM and PM ₁₀ | 5.00 | 21.90 |
| | | SO ₂ | 0.73 | 3.20 |
| | | 002 | 0.70 | 0.20 |
| 7B | 88 MW (ISO) Gas Turbine | NO_x | 102.00 | 385.44 |
| | GE Model PG7111 (EA) | CO | 58.00 | 223.38 |
| | , , | VOC | 0.90 | 3.94 |
| | | PM and PM_{10} | 5.00 | 21.90 |
| | | SO ₂ | 0.73 | 3.20 |
| 70 | 00 MM (100) C - Truthin - | NO | 100.00 | 005.44 |
| 7C | 88 MW (ISO) Gas Turbine | NO _x | 102.00 | 385.44 |
| | GE Model PG7111 (EA) | CO VOC | 58.00 | 223.38 |
| | | | 0.90 5.00 | 3.94 |
| | | PM and PM_{10} SO_2 | 0.73 | 21.90 3.20 |
| | | $3O_2$ | 0.73 | 3.20 |
| 7D | 88 MW (ISO) Gas Turbine | NO_x | 115.00 | 455.52 |
| | GE Model PG7111 (EA) | CO | 57.00 | 227.76 |
| | , , | VOC | 0.90 | 3.94 |
| | | PM and PM_{10} | 5.00 | 21.90 |
| | | SO_2 | 0.73 | 3.20 |
| 7E | 00 MM// (ISO) Coo Turbino | NO | 115.00 | 4EE E2 |
| 1 C | 88 MW (ISO) Gas Turbine GE Model PG7111 (EA) | NO _x CO | 57.00 | 455.52 227.76 |
| | GE MOUEL PG/III (EA) | VOC | 0.90 | 3.94 |
| | | PM and PM ₁₀ | 5.00 | 21.90 |
| | | rivi aliu rivi10 | 5.00 | 21.50 |

| Emission | Source | Air Contaminant | Emission R | ates * |
|-----------------------|---|---|--|---|
| Point No. (1) | Name (2) | Name (3) | lb/hr (4) | TPY(5)** |
| 7G | 83 MW (ISO) Gas Turbine GE Model PG7121 (EA) | $SO_2 \\ NO_x \\ CO \\ VOC 0.55 \\ PM \ and \ PM_{10} \\ SO_2 0.62$ | 0.73 38.00 62.00 2.41 5.00 2.69 | 3.20 166.44 271.56 21.90 |
| Turbines, Case II: Tu | ırbines with Duct Burners Fir | ing | | |
| 7A | 88 MW (ISO) Gas Turbine GE Model PG7111 (EA) with 141.8 MMBtu/hr Duct Burner Firing Hydrog Natural Gas or Process G | • | 119.02 60.13 1.75 5.71 0.83 | 460.00 232.71 7.66 25.01 3.64 |
| 7B | 88 MW (ISO) Gas Turbine GE Model PG7111 (EA) with 141.8 MMBtu/hr Duct Burner Firing Hydrog Natural Gas or Process G | • | 119.02 60.13 1.75 5.71 0.83 | 460.00 232.71 7.66 25.01 3.64 |
| 7C | 88 MW (ISO) Gas Turbine GE Model PG7111 (EA) with 141.8 MMBtu/hr Duc Burner Firing Hydrogen, Natural Gas or Process G | PM and PM_{10} | 119.02 60.13 1.75 5.71 0.83 | 460.00 232.71 7.66 25.01 3.64 |
| 7D | 88 MW (ISO) Gas Turbine GE Model PG7111 (EA) with 141.8 MMBtu/hr Duc Burner Firing Hydrogen, Natural Gas or Process G | PM and PM_{10} | 132.02 59.13 1.75 5.71 0.83 | 530.07 237.09 7.66 25.01 3.64 |
| 7E | 88 MW (ISO) Gas Turbine GE Model PG7111 (EA) with 141.8 MMBtu/hr | NO _x CO VOC | 132.02 59.13 1.75 | 530.07 237.09 7.66 |

| Emission | Source | Air Contaminant | Emission R | ates * |
|--------------------|---|---|--|---|
| Point No. (1) | Name (2) | Name (3) | lb/hr (4) | TPY(5)** |
| | Duct Burner Firing Hydroger Natural Gas or Process Gas | | 5.71 0.83 | 25.01 3.64 |
| 7F | Package Boiler 250 MMBtu/hr | NO_x CO VOC PM and PM_{10} SO_2 | 12.50 25.00 0.34 1.25 0.10 | 54.75 109.50 1.51 5.48 0.43 |
| CWTP1 | Combined Wastewater Treatment Plant | VOC | 6.25 | 27.3 |
| TTW-15A | Diesel Storage Tank | VOC | 0.06 | 0.01 |
| TTW-15B | Diesel Storage Tank | VOC | 0.06 | 0.01 |
| TTW-15C | Diesel Storage Tank | VOC | 0.06 | 0.01 |
| TTW-15D | Diesel Storage Tank | VOC | 0.06 | 0.01 |
| TTW-15E | Diesel Storage Tank | VOC | 0.06 | 0.01 |
| UT-F02A | Diesel Storage Tank | VOC | 0.06 | 0.01 |
| UT-F02B UT-F02C | Diesel Storage Tank Diesel Storage Tank | VOC VOC | 0.06 0.06 | 0.01 0.01 |
| FPM-02A | Diesel Firewater Pump | NO _x CO VOC PM SO ₂ | 8.36 3.19 0.18 0.66 2.06 | 0.11 0.04 0.01 0.01 0.03 |
| FPM-02B | Diesel Firewater Pump | NO_x CO VOC PM SO_2 | 8.36 3.19 0.18 0.66 2.06 | 0.11 0.04 0.01 0.01 0.03 |
| FPM-02C | Diesel Firewater Pump | NO _x | 8.36 | 0.11 |

| Emission | Source | Air Contaminant | Emission R | ates * |
|---------------|------------------------|---|--------------------------------------|--------------------------------------|
| Point No. (1) | Name (2) | Name (3) | lb/hr (4) | TPY(5)** |
| | | CO VOC PM SO ₂ | 3.19 0.18 0.66 2.06 | 0.04 0.01 0.01 0.03 |
| FPM-02D | Diesel Firewater Pump | NO_{x} CO VOC PM SO_{2} | 8.36 3.19 0.18 0.66 2.06 | 0.11 0.04 0.01 0.01 0.03 |
| FPM-02E | Diesel Firewater Pump | NO _x CO VOC PM SO ₂ | 8.36 3.19 0.18 0.66 2.06 | 0.11 0.04 0.01 0.01 0.03 |
| UP-F02A | Diesel Firewater Pump | NO_x CO VOC PM SO_2 | 8.68 1.87 0.69 0.62 1.42 | 0.11 0.02 0.01 0.01 0.02 |
| UP-F02B | Diesel Firewater Pump | NO_x CO VOC PM SO_2 | 8.68 1.87 0.69 0.62 1.42 | 0.11 0.02 0.01 0.01 0.02 |
| UP-F02C | Diesel Firewater Pump | NO _x CO VOC PM SO ₂ | 8.68 1.87 0.69 0.62 1.42 | 0.11 0.02 0.01 0.01 0.02 |
| XZ-OS01 | Waste Oil Storage Tank | VOC | 0.01 | 0.01 |

| Emission | Source | Air Contaminant | Emission Ra | ites * |
|---------------|--|-----------------|-------------|----------|
| Point No. (1) | Name (2) | Name (3) | lb/hr (4) | TPY(5)** |
| XZ-WS01 | Oil-Water Separation System | VOC | 0.11 | 0.25 |
| PCDIESELFUG | PC Plant Fire Water System Fugitives | VOC | 0.04 | 0.16 |
| EXPDIESELFUG | Expansion Plant Fire Water System Fugitives | VOC | 0.06 | 0.27 |

- (1) Emission point identification either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names.
- (3) NO_x total oxides of nitrogen
 - CO carbon monoxide
 - VOC volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - 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.
 - SO₂ sulfur dioxide
- (4) Maximum hourly emissions based on an ambient temperature of 20°F for Emission Point No. (EPN) 7A through 7C and 30°F for EPN 7D through 7E.
- (5) Annual emissions based on 70°F ambient temperature for EPN 7A through 7E.
- * Emission rates are based on continuous operation (8,760 hours/year) except for the diesel firewater pumps, which are based on operating for 26 hours/year each.
- ** Compliance with annual emission limits is based on a rolling 12-month period.

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