

Section 5.0 Expected Performance Using Natural Gas and Diesel Fuel (Not Guaranteed)

The expected performance for the plant is presented in the performance calculations included in this section. Calculations were performed for operation on both Natural Gas and #2 Diesel for the FT8 TwinPac, with and without water injection, at the design conditions listed. A performance summary is attached on the following pages.

Site Conditions: 27.5°C (81.5°F); 85% RH; 165 meters (547 ft.)

| | | Total (3) Units | | Total (3) Units | | Total (3) Units | | Total (3) Units |
|--------------------------------|----------------|-----------------------|-----------------------------|-----------------------|----------------|-----------------------|-----------------------------|-----------------------|
| | Natural Gas | | | | Diesel | | | |
| | FT8 TwinPac | | FT8 TwinPac Water Inject | | FT8 TwinPac | | FT8 TwinPac Water Inject | |
| Gross GT Power ea. (kW) | 48624 | 145871 | 54489 | 163467 | 46993 | 140979 | 53044 | 159132 |
| Net LHV HR (BTU/kWh) | 9394 | 9390 | 9682 | 9678 | 9503 | 9499 | 9820 | 9816 |
| Net Power (kW) | 47730 | 143253 | 53400 | 160265 | 46248 | 138802 | 52139 | 156479 |
| Auxiliaries (kW) | 894 | 2618 | 1089 | 3201 | 745 | 2177 | 905 | 2653 |
| Fuel usage (pph) | 22530 | 67600 | 25980 | 77950 | 24020 | 72060 | 27980 | 83950 |
| Fuel usage (MMSCFD) | 11.6 | 34.7 | 13.3 | 40.0 | N/A | N/A | N/A | N/A |
| Fuel usage (gpm) | N/A | N/A | N/A | N/A | 55.5 | 166.5 | 64.7 | 194.0 |
| Fuel Chemical HHV/LHV ratio | 1.107 | 1.107 | 1.107 | 1.107 | 1.065 | 1.065 | 1.065 | 1.065 |
| Water Injection (pph) | N/A | N/A | 25980 | 77950 | N/A | N/A | 27980 | 83950 |
| Water Injection (gpm) | N/A | N/A | 52.0 | 155.9 | N/A | N/A | 56.0 | 167.9 |