

## 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