LM6000 Gas to Dual Fuel Upgrade

Product Description

- Upgrade includes on-engine, off-engine, and the off-package fuel delivery and filtration skids, along with updated controls software and hardware, to yield a unit capable of operating on either Natural Gas or Liquid Fuels (diesel)
- Main part of the package mechanical changes will consist of installing all major components and piping to supply gas fuel from the customer connection (flanged outside of main base) to the engine gas fuel manifold.
- Standard off-package components consist of a fuel-metering valve, liquid fuel shutoff valves, check valves, and fuel return lines.
- Two new liquid fuel manifolds, hoses, and dual fuel nozzles will be added on-engine.
- Gas purge lines as well as a Compressor Discharge Pressure (CDP) purge system will also be installed.
- CDP air, obtained through a purge system, is used to prevent coking of the gas fuel nozzles during liquid fuel operation and prevent the combustion flame from backing into the fuel gas manifold.
- 50Hz and 60Hz can be selected, adding applicable 50Hz and 60Hz parts and maintaining common parts to both systems. A CDP cooler can be selected for both 50Hz and 60Hz options.
- Customers already configured for Water Injection on the current fuel system should concurrently supplement the new fuel system with Water Injection for continuous NOx abatement in both fuel operation modes.
- Duplex liquid fuel forwarding and boost skid available as an option.

Fuel Metering Valve

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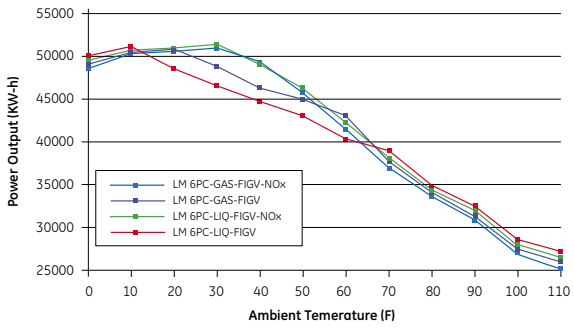
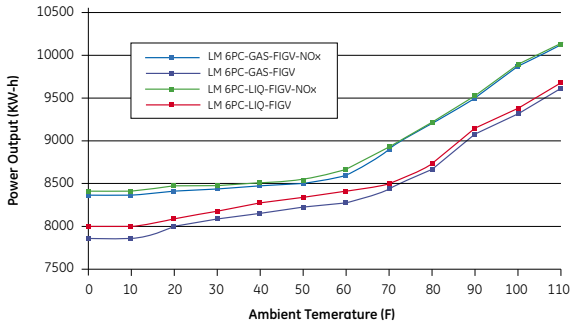
Customer Value

- Vastly improves the versatility of the package by allowing the LM6000 engine the option to operate on either a Liquid Fuel or Natural Gas fuel system.
- Maximizes profitability by switching from one fuel to another, enabled at full load with a CDP air-cooling system (if installed), depending on market conditions.
- Improvement on performance and operability of the LM6000 gas turbine.



Estimated LM6000 PC - Generator Power Output



Estimated LM6000 PC - Heat Rate

Applicable Units:

LM6000	✓	LM2500	
LMS100		LM5000	
LM1600		TM2500	

Configured for GE AEP LM6000 PA or PC

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