Liquid to Dual Fuel Upgrade for LM6000 aeroderivative gas turbine

Product Description
Upgrading your liquid fuel-only LM6000 aeroderivative gas turbine so that it also can run on natural gas allows you the flexibility of using different fuels as prices fluctuate.

Product Details
The dual fuel upgrade includes on-engine, off-engine, and off-package fuel delivery and filtration skids, along with updated controls software and hardware:

- **Mechanical changes.** Installation of all major components and piping that supply gas fuel from your connection (flanged outside of the main base) to the engine gas fuel manifold, gas purge lines, and the Compressor Discharge Pressure (CDP) purge system.

- **On-package components.** Fuel-metering valve, gas shutoff valves, check valves, and vents.

- **Turbine control system.** Metering of your supplied fuels to the turbine combustor using the system’s two liquid fuel manifolds, a gas manifold, and 30 dual fuel nozzles.

- **CDP air, obtained through a purge system.** 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.

- **Optional off-package components.** Gas fuel compressor, coalescer or dehumidifier, and/or a filter/scrubber skid.

- **Recommended.** Installation of a NOx water injection system, along with the latest fuel core/sequencer software, for better performance and greater efficiency.

Customer Benefits
- **Increased versatility.** The upgraded LM6000 gas turbine can operate on either liquid fuel or natural gas.

- **Increased profits.** Based on changing fuel prices, the engine can be switched from one fuel to another. This is enabled at full load with a CDP air-cooling system (if installed).

### Applicable Units:

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<tr>
<th>LM6000</th>
<th>LM2500</th>
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<tr>
<td>LMS100</td>
<td>LM5000</td>
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<tr>
<td>LM1600</td>
<td>TM2500</td>
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Configured for GE AEP LM6000 PC unit only.

GE’s global service network provides life cycle support for more than 3,500 aeroderivative gas turbines worldwide to help you meet your business challenges and success metrics – anywhere and anytime. Our global service network connects with you locally for rapid response to your service needs.

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