



4-Hour Lockout Avoidance for LM2500 and LM6000 Gas Turbines

Conversion, Modification and Upgrade Offering

Product Description

This upgrade for GE's LM2500 and LM6000 aeroderivative gas turbines helps you safely reduce or eliminate a common forced four-hour lockout period that can occur after a hot shutdown.

Product Details

The upgrade package requires modifications to the hydraulic starter system and control system logic, including the addition of the following items:

- Hydraulic rectifier manifold block
- Pressure indicator
- New start control logic block with speed feedback signals
- Hydraulic line adapters, hoses, and additional hardware

GE's solution to automatically re-engage operating modes:

- *Slow roll mode* allows the hydraulic start system to automatically re-engage the starter after certain emergency shutdown conditions and slow roll the high pressure rotor at 80–120 rpm. This gives the operator time to address the trip condition and restore the unit to full power operation.
- *Soft start mode* allows for periodic restart attempts during the lockout period, when it is not advisable to attempt an automatic slow roll. Once this mode is initiated from the HMI, the “soft start” performs checks to determine if the turbine rotor is locked. If the rotor is locked, soft starts can be attempted every 15 minutes until the system detects that the rotor is free to rotate. If certain additional requirements are met, the turbine then follows a modified starting cycle to resume full power.

Customer Benefits

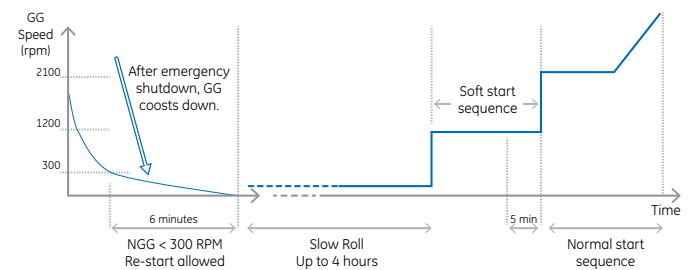
- *Increased uptime.* Helps reduce or eliminate the four-hour lockout period that can occur after a hot shutdown of LM2500 and LM6000 gas turbines.
- *Improved safety.* Allows for safer turbine inspection after a hot shutdown without the need for an operator to enter the turbine to check the rotor condition.

Applicable Units

LM2500	✓	LMS100	
LM6000	✓	TM2500	✓



Re-start Sequence with Slow Roll



GE's global service network provides lifecycle 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.

Find your local support online:
www.gepower.com

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