S7 Core Upgrade

Product Description
- The S7 core logic upgrade incorporates all current Software Action Requests (SARs) for LM6000 PC engines.
- Upgrade also includes all S6 benefits:
  - SPRINT Logic optimization and Variable SPRINT added.
  - Improved SPRINT enabling.
  - NOx water control improvements.
  - T3 and T48 logic revisions.
- The S7 core upgrades are:
  - Long term PFC solution added (hardware upgrades required).
  - Fast start capability, see Fast Start Upgrade page for full benefits.
  - Maximum power is predicted realtime for both SPRINT and non-SPRINT operation.
  - NOx and SPRINT logic optimized further.
  - T25 Sensor compensation for SPRINT. Better behavior in extreme transient conditions.
  - N25 MAX Scheduling bias correction.

Customer Value
- Allows temporary overload of 2 MW, improving engine response to grid fluctuations.
- PFC operating according to grid requirements and maximizing power output.
- Better NOx control.
- More robust flame out detection during start up, range expanded to N25 > 500 rpm, reducing risk of hung starts and improves false flame out detection.
- Reduced turbine trips help increase plant revenue and efficiency.
- False alarms reduced and major alarm logic revision.
- More developed frequency control algorithms to meet requirements from many different grid authorities.

Applicable Units:

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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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GEA32089A (09/2015)