41k EOH Maintenance Concept for Siemens Gas Turbines

Our top priority at Siemens Energy is to provide outstanding, responsive solutions to help improve your operating plant competitiveness and profitability. One focus of Siemens’ development activities refers to reduction of life cycle costs. The Siemens 41k EOH Maintenance Concept for Siemens Gas Turbines can yield an increase in reliability, flexibility and help maintain availability.

Our product
The 41k EOH Maintenance Concept (41MAC) involves the replacement or modification of key turbine components which is intended to extend the lifetime of gas turbine components and reduce lifecycle costs. Implementation of 41MAC also extends Siemens’ recommended scheduled maintenance intervals.

The 41MAC features new coatings for turbine blades, advanced inner casing and mixing chamber design as well as a modification of the HR3 burner.

Your benefits
The 41k EOH Maintenance Concept is a modernization package designed to increase important key qualities of Siemens Gas Turbines. The benefits may include:
- Life extension of numerous hot gas path components
- Enhanced operational availability
- Extended recommended scheduled maintenance intervals
- Deferral of investment for outages
- Reduction of life cycle cost

Implementing the modified turbine vanes

Performance Enhancement – Gas Turbine

Answers for energy.
The 41k EOH Maintenance Concept can be a very cost-effective way to reduce lifecycle costs, to enhance reliability and to sustain the operational flexibility of your power plant. The implementation of this enhanced maintenance concept can fit best into a maintenance schedule after 100,000 EOH in the framework of the Lifetime Extension maintenance but can also be implemented at any other major maintenance activity.

The Siemens 41k EOH Maintenance Concept is applicable for SGT5-2000E (V94.2) and SGT6-2000E (V84.2) frames and has been state-of-the-art for new Siemens Gas Turbines of the frame types SGT5-2000E (V94.2) and SGT6-2000E (V84.2) for more than 10 years.

Scope of supply
The Siemens 41k EOH Maintenance Concept is one modernization package among many others that represent Siemens’ state-of-the-art technology in gas turbines. The scope of this modernization may include:
- Advanced mixing chamber design
- Advanced inner casing design
- New coatings and aluminized inner surface on turbine blades and vanes stage 1 and turbine vanes stage 2
- HR3 burner and flame tube modification

The Siemens 41k EOH Maintenance Concept can be combined with other Siemens Gas Turbine modernizations designed to enhance the overall performance of your gas turbine e.g. the Firing Temperature Increase and the Siemens innovative 3D optimized turbine blades and vanes.

We recommend a major outage or a Lifetime Extension outage to implement the 41k EOH Maintenance Concept upgrade. We offer a full range of field service capabilities to help you manage your maintenance and outage schedules.

References
Siemens Energy has successfully implemented the 41MAC in more than 30 units worldwide e.g.:
- One unit in Indonesia,
- Two units in Hungary
- Two units in Turkey
- Three units in United Kingdom.*

*) As of July 2012