



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

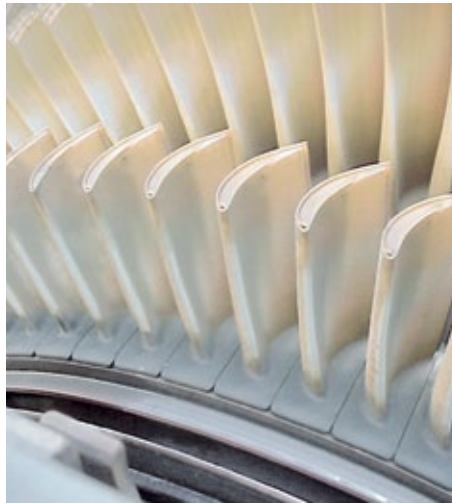
Performance Enhancement – Gas Turbine

Answers for energy.

SIEMENS



Detail of a model of HR3 diagonal swirler



Advanced turbine coatings

The 41k EOH Maintenance Concept can be a very cost-effective way to reduce life cycle 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



New inner casing design

For more information please contact your local Siemens sales representative.

Published by and copyright © 2012:
Siemens AG
Energy Sector
Freyeslebenstrasse 1
91058 Erlangen, Germany

Siemens Energy, Inc.
4400 Alafaya Trail
Orlando, FL 32826-2399, USA

For more information, please contact our Customer Support Center.
Phone: +49 180/524 70 00
Fax: +49 180/524 24 71
(Charges depending on provider)
E-mail: support.energy@siemens.com

Energy Service Division
Order No. E50001-G520-A449-X-4A00
Printed in Germany
Dispo 34805, c4bs No. 7816, 7821
TH 258-120619 BR 461162 DB 07122.0

Printed on elementary chlorine-free bleached paper.

All rights reserved.
Trademarks mentioned in this document are the property of Siemens AG, its affiliates, or their respective owners.

Subject to change without prior notice.
The information in this document contains general descriptions of the technical options available, which may not apply in all cases. The required technical options should therefore be specified in the contract.