Smooth migration for turbine control system

SPPA-R3000 Turbine Controls

offers smooth and economic migration from an ISKAMATIC / SIMADYN / TELEPERM ME or a SIMADYN / S5/95 F environment. It is a perfect solution for gas and steam turbines of all producers, with electrical solutions, process engineering, comprehensive automation functions and a modern state of the art I&C system fully-integrated into the unit control.

The Task

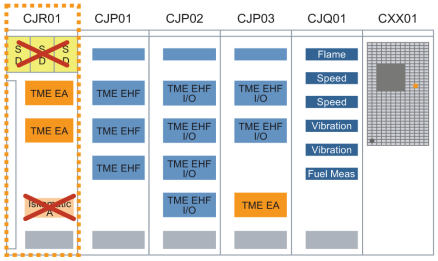
More than 4000 Siemens PG Turbines are worldwide in operation. During the decades different Turbine Control Solutions and Systems have been developed and installed in following technological trends on the market. Most of these turbines are still in commercial operation, take part in Life Time Extension programs, or are in schedule for modernization and upgrade.
Due to the tremendous technological evolution in I&C systems and HW platforms, some of the originally installed systems are not manufactured any more. Even spare parts supply or repair becomes critical.

Our Solution

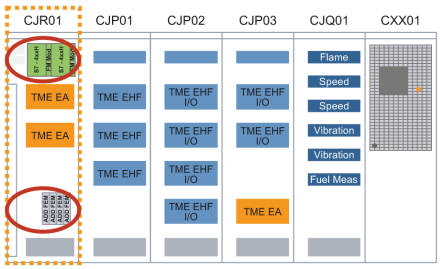
SPPA-R3000 Turbine Controls offers smooth migration concepts for Siemens Units as well as for Third party Turbines. It provides one common HW platform for all major control tasks like Turbine Governor, Turbine Protection and Turbine Auxiliaries. Based on standard SIMATIC S7 technology it can be fully integrated in a SPPA-T2000 or SPPA-T3000 DCS environment for Human Machine Interface and engineering. With its modular structure it allows governor replacement only with implementation of the SPPA-R3000 in the remaining environment up to a Turn Key replacement of the entire installed Turbine Control equipment.

Original CJR01 Cabinet with SIMADYN and ISKAMATIK

Original CJR01 Cabinet with new SPPA-R3000



Original installed I&C solution with SIMADYN, ISKAMATIK and TELEPERM ME technology



Example for partly replacement of SIMADYN and ISKAMATIK with new SPPA-R3000 technology

Your Benefit

- Proven Technology; standardized, scalable, extendible
- Highest flexibility to follow customers demands
- Integration into SPPA-T2000 and SPPA-T3000 DCS platforms
- Latest innovations of turbine technology and control algorithm

Turbine Controls

Answers for energy.

SIEMENS

Published by and copyright © 2010:
Siemens AG, Energy Sector
Freyeslebenstrasse 1
91058 Erlangen, Germany

Siemens Power Generation, Inc.
Instrumentation & Controls
1345 Ridgeland Parkway, Suite 116
Alpharetta, GA 30004, USA

sppa-r3000.energy@siemens.com

For more information, 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

Fossil Power Generation Division
Instrumentation, Controls & Electrical
R3M1_FS_TurbContr_e_V2-2
Order No. E50001-G230-A205-X-4A00
Printed in Germany
Dispo 05401, c4b: 7465

Printed on elementary chlorine-free
bleached paper.

www.siemens.com/sppa-r3000