

ABB Power Generation Care helps maintain 756 MW combined cycle power plant in Qatar



ABB is providing its Power Generation Care service solution to the Ras Laffan Power Company (RLPC) combined cycle power plant in the north of Qatar – a package solution comprising complete software, product and technical support. Built in 2003, RLPC is an integrated power and water station, producing 756 MW of electricity and 40 MIGD of water, and uses ABB's Infi-90 control system and Symphony Plus plant automation for its two steam turbines of Franco Tosi design. Crucially, the introduction of Power Generation Care will extend the control system's life cycle, improve operator effectiveness and provide the customer with a number of important long-term benefits.

Customer need: minimize production losses

The RLPC plant needed to improve availability and ensure continuous operation by minimizing the loss of production resulting from control system failures. As plant revenues are linked to availability, the issue was compounded by a lack of hardware support and obsolescence of Windows NT.

ABB response: Long-term system evolution with Power Generation Care

Having supported the installation on an ongoing emergency needs basis, and in response to the need for a life cycle update, the Power Generation service team from ABB Middle East introduced the customer to the benefits of the newly launched Power Generation Care program, part of ABB's comprehensive suite of life cycle support services for power generation facilities.

Subscription to Power Generation Care will ensure that the existing controller, communications, engineering tools and HMI platform is evolved to the latest versions and will continue to keep them updated during the program period, which is due to run until 2022.

Power Generation Care: comprehensive service solution

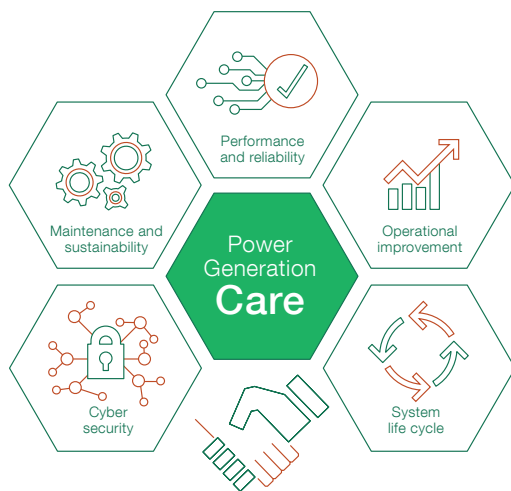
The Power Generation Care contract will provide RLPC with software maintenance updates/upgrades, 24/7 remote support, preventive on-site support, spare parts, service to spare conversion, web access to online technical bulletins and information, training and evolution upgrades.

DCS software evolution included in the Power Generation Care contract ensures that the customer is provided on a continual basis with the essential software updates and upgrades to continue expanding the functionality and reliability of the system.

Support is available 24/365 from the ABB Power Generation service team, as well as a priority response from the global support centers during normal business hours. The comprehensive Power Generation Care service solution provides RLPC with essential technical phone support for troubleshooting and when updating the control system. Under the agreement, ABB will provide two visits per year to perform control system maintenance services, including performance of diagnostics, verifications, troubleshooting and installation of software patch updates, and also provide a comprehensive report on

performance. The customer will have access to priority on-site emergency support. The availability of service engineers on a timely basis will help the customer reduce system downtime losses.

Substantial savings are provided through the contract for parts and training and allows minimal sourcing efforts. Substantial savings are provided through the contract for parts and training and allows minimal sourcing efforts. The various training offerings run by ABB University will also help the development of world-class skills. For this project, the Power Generation Care program has been customized to provide RLPC with the flexibility to convert unconsumed service time from on-site or phone support to purchase spares, ensuring a maximum return on their investment.



Life cycle service solutions for power plants

Benefits to the customer

ABB Power Generation Care delivers comprehensive life cycle support services to power generation and water assets, with the following benefits:

- Increased availability and maximized reliability
- Extended asset life
- Improved functionality in operation and maintenance
- Protection of financial and intellectual investment over five year program period
- Minimum loss of production during implementation of upgrades

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