Qatar Turbo Times

THE OFFICIAL DIGITAL NEWSLETTER OF GULF TURBO SERVICES
(A GROUP COMPANY OF MAN ENERGY SOLUTIONS SE)

GTS: ONE STOP SOLUTION SHOP FOR CRITICAL STEAM TURBINE OVERHAULS, REFURBS & UPGRADES

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Based on our customers' immense interest after our first two newsletters, it only makes sense to add our third edition titled **"GTS : ONE STOP SOLUTION SHOP FOR CRITICAL STEAM TURBINE OVERHAULS, REFURBS & UPGRADES".**

With 15 years' experience in Qatar, GTS has developed substantial local competence and a dedicated workshop in Doha under the technological leadership of MAN Energy Solutions.

MAN-ES has over 100 years' experience in developing steam turbines – specific technology characterized by a variety of modular design features. Customers, from process industries and refineries to fertilizer plants rely on our highly efficient steam turbines as their main mechanical drives. Proven technology with convincing operating reliability are installed locally in large refineries, iron and steel industry and air separation units amongst other applications.

EXPERIENCED AND FLEXIBLE ROTATING SPECIALIST

Further afield, power generation applies them in waste-to-energy or biomass processes as well as in concentrated solar power stations amongst others. Under the PrimeServ Omnicare (third party machines) servicing unit, GTS supports our own MAN ES turbines as well as all kinds of similar machines to improve our local customers' operability & serviceability right here in Qatar.

To enhance your steam turbine operation, our global experts can support local customers with steam turbine upgrades to improve efficiency & operability via various improvement categories resulting in improved profitability but more importantly, higher reliability and better efficiencies. Typical areas we can address include process reviews of changed operating conditions, valve diagnostics, general output increases, modern control and remote monitoring system upgrades, etc., all of which can be added to existing equipment including various levels of support, performance analytics and operational trouble shooting. We can even engineer a complete foot-print replacement of your outdated steam turbine ensuring reliable and more efficient operation - improvements reducing operational expenses and reducing your Carbon footprint via higher efficiencies. Online steam monitoring as another add-on system preventing possible damage to your steam turbine caused by deposits, steam erosion and corrosion due to unsuitable steam quality - another great addition safeguarding high value assets.

Here in Qatar GTS has already supported many of our esteemed local customers during major steam turbine overhauls and workshop based refurbishments and repairs. More specifically we have for example recently completely overhauled a 9MW off-gas compressor drive turbine manufactured by Mitsubishi Heavy Industries (Model 5BH-3), as well as a recycle gas compressor drive turbine (MHI Model 5CL-4), both critical core machines of our customer's process plants. Key activities carried out by GTS included from the site scaffolding and transport logistics to the complete dis-assembly on site, critical inspections of all components and the carefully recorded workshop and site based repairs and re-assembly. The customer's requirements included detailed records of all activities from simple casing bolt (tightening) records, diaphragm assembly records, journal & thrust bearing condition and clearance records, right through to more complicated rotor, coupling and valve assembly records and diaphragm repairs etc. Exhaustive lists of specific recording requirements over and above the physical refurbishments ultimately provided the customers with excellent references for all future activities whilst ensuring good traceability. A result which raised both our customer's level of trust in GTS's local capabilities having concluded all works on time and on a lump-sum turnkey basis.

As per the above, GTS has supported many more partners with similar customised contracts resulting in successful continued life extensions of existing steam turbines which now places us in a unique position to even further expand the one stop solutions to include upgrades and modernisations mentioned earlier for even better reliability and efficiency. **Improvements we are keen to tackle to contribute to our goal of a greener footprint in a push for sustainable production in Qatar.**

We are keen and ready to add these options to our local one stop solutions product portfolio and are looking forward to support you in optimising your Steam Turbine operability with our various PrimeServ products backed by our global pool of specialised engineers in the MAN ES network. Let us know, if we can support you to reduce your carbon footprint & increase your steam turbine operability!

GTS: YOUR PARTNER FOR STEAM TURBINE SERVICE AND UPGRADE SOLUTIONS

MAN Energy Solutions
Future in the making

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