

F'IS monitors MULTIBRID M5000 offshore wind turbine prototypes

Service and Online Condition Monitoring for the first 5 MW-prototypes made by Multibrid – Modern surveillance system guarantees early error detection – High-level logistics employed specially for offshore maintenance.



FAG Industrial Services GmbH (F'IS) was commissioned by Bremerhaven's MULTIBRID Entwicklungsgesellschaft mbH to provide an Online-Condition-Monitoring system for the first MULTIBRID M5000 offshore wind turbine prototypes. In 2003 the monitoring system FAG WiPro made by F'IS was endowed with a cachet issued by Allianz Zentrum für Technik (AZT). Some months ago this audit was repeated by Hamburg's Germanischer Lloyd GmbH (GL). At the same time the auditors of GL confirmed the outstanding quality of the surveillance centre in Herzogenrath and of the service personnel working there.

The F'IS condition-monitoring-concept contains a continuous monitoring of all bearing components by numerous sensors with regard to vibration, temperature, and movement. Deviations are registered and analysed immediately by experts, who initiate the necessary counter measures. Thus it is possible to avoid unintentional downtimes and enhance the feasibility of maintenance planning. Especially in the wind farm sector arguing for maintenance, which can be planned, is crucial, because of very elaborate and costly logistics, e.g. by use of heavy-duty cranes in impervious terrain. Offshore the equipment used in wind farms is much heavier, because of the higher power generation capacity. Therefore parts, which have to be dealt with, are much heavier, producing extremely high costs during maintenance service. This especially argues the case for cutting costs here.

Next to the obligation to monitor the facility's status, the WiPro-system made by F'IS provides for another advantage, namely keeping the amount of data for analysing a given facility low without lacking the necessary input to determine information on possible damages. Therefore the system is best suited to monitor even the largest offshore facilities in wind farms without the slightest problem.

Contact

FAG Industrial Services GmbH

Kaiserstrasse 100, D-52134 Herzogenrath

Mrs. Christiane Reimer, Marketing & Communications

Tel. +49 (0) 2407 / 9149-47, Fax: +49 (0) 2407 / 9149-88

E-mail: reimer_c@fis-services.de

Internet: www.fis-services.de