

Wind Turbine

Strain Gauging, Gear Box, Telemetry



Keywords

- ▶ Multiple Channel Data Acquisition System
- ▶ Strain Gauges of Annular
- ▶ Accelerometer Transducers
- ▶ Telemetry Transmitter and Receiver Systems
- ▶ Data Analysis & Reporting
- ▶ Online Data Automation

A new wind turbine gear box was commissioned for a Far East turbine installation and Nprime Ltd was designated the test project company. The new gear box was designed for a 2.5MW and test on its annular gears to monitor the stresses in the different components was instigated. The gear box company is a world-wide manufacturer and Nprime Ltd established an excellent relationship for reliability and efficient project management.

Nprime Ltd dispatched a team of engineers and technicians to the Far East to instrument, setup and test the new gear box. The principal requirement was that all the test data had to be transmitted to the client's design office in the UK.

Nprime Ltd was tasked to strain gauge the gear box, setup data acquisition system, telemetry system and post-process the data on continuous basis. Nprime Ltd had the expertise and the systems to put a complete project together for the testing of the new gear box.

Using our telemetry, strain gauge service, data analysis, data automation and data acquisition system, the client received all the data on 3 instrumented gear boxes including all annulars.

Depending on your requirements for design decisions or checking structural safety, Nprime Ltd can offer you a range of services:

- On-site strain gauge installation
- Instrumentation of full vehicle / structures
- Data Acquisition / telemetry
- Data Analysis for Decision-Making
- Fatigue-Life Assessments (Test & FEA)
- Automated Online Monitoring Systems
- Data Measurement & Reporting

Nprime Ltd is a partner to Wyle TDS, HBM, Quasonix and ATI Telemetrics.



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