

## Oil & Gas Energy

## Data Monitoring, Strain, Automation



### Keywords

- ▶ Strain Gauging of Risers
- ▶ Data Acquisition System
- ▶ Telemetry Transmitters and Receivers
- ▶ Data Analysis Software
- ▶ Automated Data Analysis
- ▶ Fatigue Life Assessment

Nprime Ltd have assisted Oil & Gas clients with the development and testing of their newest risers and flowlines. The risers were specifically developed for the new field in the North Sea to cope with the rigours and harshness of this environment.

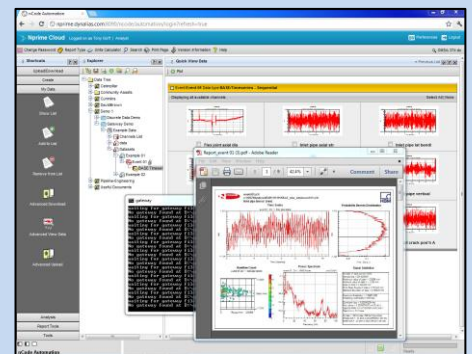
Nprime Ltd provided the hardware, design, software analysis and automation, technical support and specialist strain gauging expertise. We also have supplied load cells and strain gauges fasteners so as they can be used for fatigue analysis and strength testing of the new riser.

With the assistance of our client, Nprime Ltd carried a series of tests and accumulated a large amount of data to determine strain, stress and critical areas in the riser. Over a period of several weeks, the data accumulated was analysed using HBM nCode GlyphWorks and fatigue life estimation using DesignLife software tools.

As the testing progressed, the data gathered was transmitted continuously to a server via the Internet to Nprime offices in Sheffield. Using data management software called Automation, a web based data analysis and management software from HBM nCode, the data was downloaded, classified, filtered and analysed via routines developed for the client.

Nprime Ltd provided the installation, setup, test, analysis and automation of the process of data acquisition and measurement. Nprime Ltd services are a combination of data acquisition, instrumentation, strain gauging, telemetry, software and technical support to fulfil clients' solution requirements.

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



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