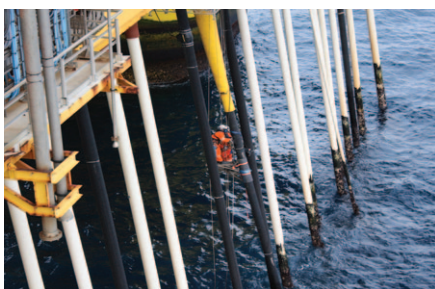




There have been major developments over the past decade in increasing riser capacity, specifically in response to water depth, riser diameter, internal pressures and temperatures. This has led to a growth in riser Integrity Management (IM) systems to manage the risk of operating riser systems.



riserNET

Based on years of oil and gas industry experience KONGSBERG has developed riserNET, a field-proven integrity management tool for flexible pipes and umbilicals. Today riserNET is in regular use on seven offshore production installations, following up operations of more than one hundred risers and umbilicals.

The web-based interface allows for efficient sharing of information internally within the operators organization as well as with third parties that need access to specific information.

riserNET database module contains vital information about design and as-built documentation, operational limitations, riser configuration information, inspection plans, analysis reports and anomaly lists.

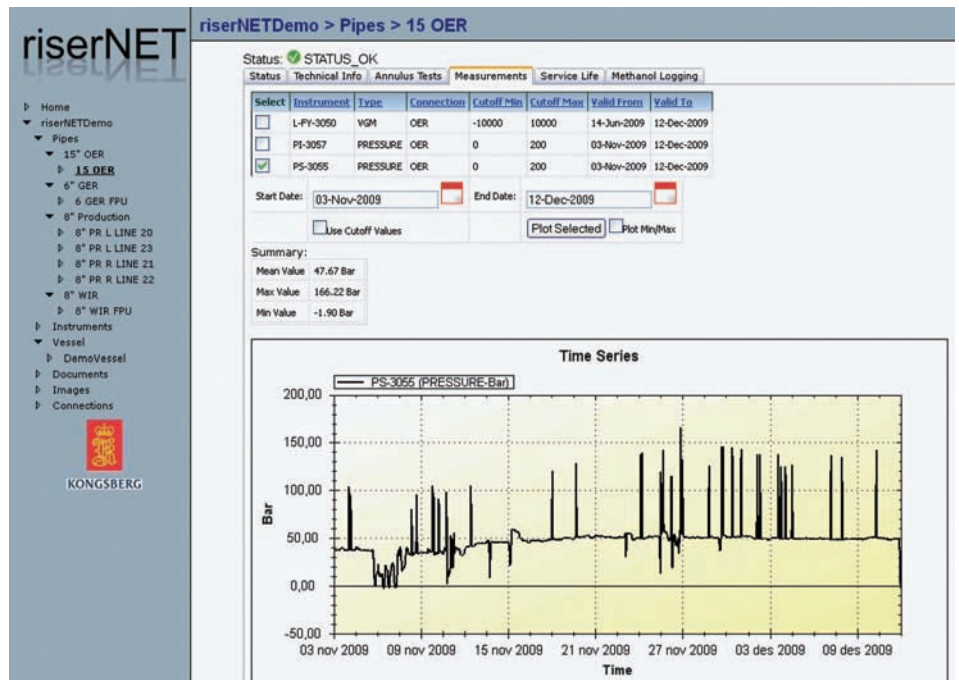
riserNET includes modules for online monitoring and data analysis modules to facilitate efficient Riser

Integrity Management:

- Assessment of thermal degradation based on temperature cycle monitoring
- Assessment of internal collapse probability based on pressure cycle monitoring
- Fatigue damage assessment based on measured operational pressure

riserNET can easily be interfaced to existing data acquisition systems such as the topside control system to access, store and process vital data. Typical data types are pressure, temperature and annulus vent monitoring readings, vessel motions, wave height and current, riser motion and tension systems.

Having all relevant operational data from riserNET combined with up-to-date analysis models of the riser system, re-assessments and timely response to any unforeseen incidents will be possible.



Key features of riserNET

- Reduced risk of unexpected failure, accidents and loss of production
- Gives early warnings in case of erroneous or non-optimal usage of the riser
- Provides data for efficient generation of integrity status reports for internal and external use
- Provides information for swifter and more accurate assessment of remaining fatigue life, possible re-use and changes in operational conditions
- Facilitates secure and quick access to key documents, drawings and measured data
- Provides improved knowledge transfer between engineering, operations and R&D technicians
- Preserves all relevant data for easy and efficient evaluation of extended service life

September 2011

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