

Product

Semi-Sub/Drill Ship Riser Analysis

Product Application

- Improve operating envelopes to maximise drilling windows
- Provide guidance to ensure you are selecting the right equipment for the job
- Verify that your marine riser and subsea conductor system is fit for purpose and meets regulatory requirements
- Reduce risks offshore by having analysis-driven solutions in place

Key Features

- Solution driven approach
- Marine riser analysis tailored to customer specific needs
- In-house design, project management and offshore teams working closely together to ensure solutions are tailored and suitable
- An extensive peer reviewed report to describe the results and conclusion, which focuses on practical solutions

A Complete End-to-End Solution

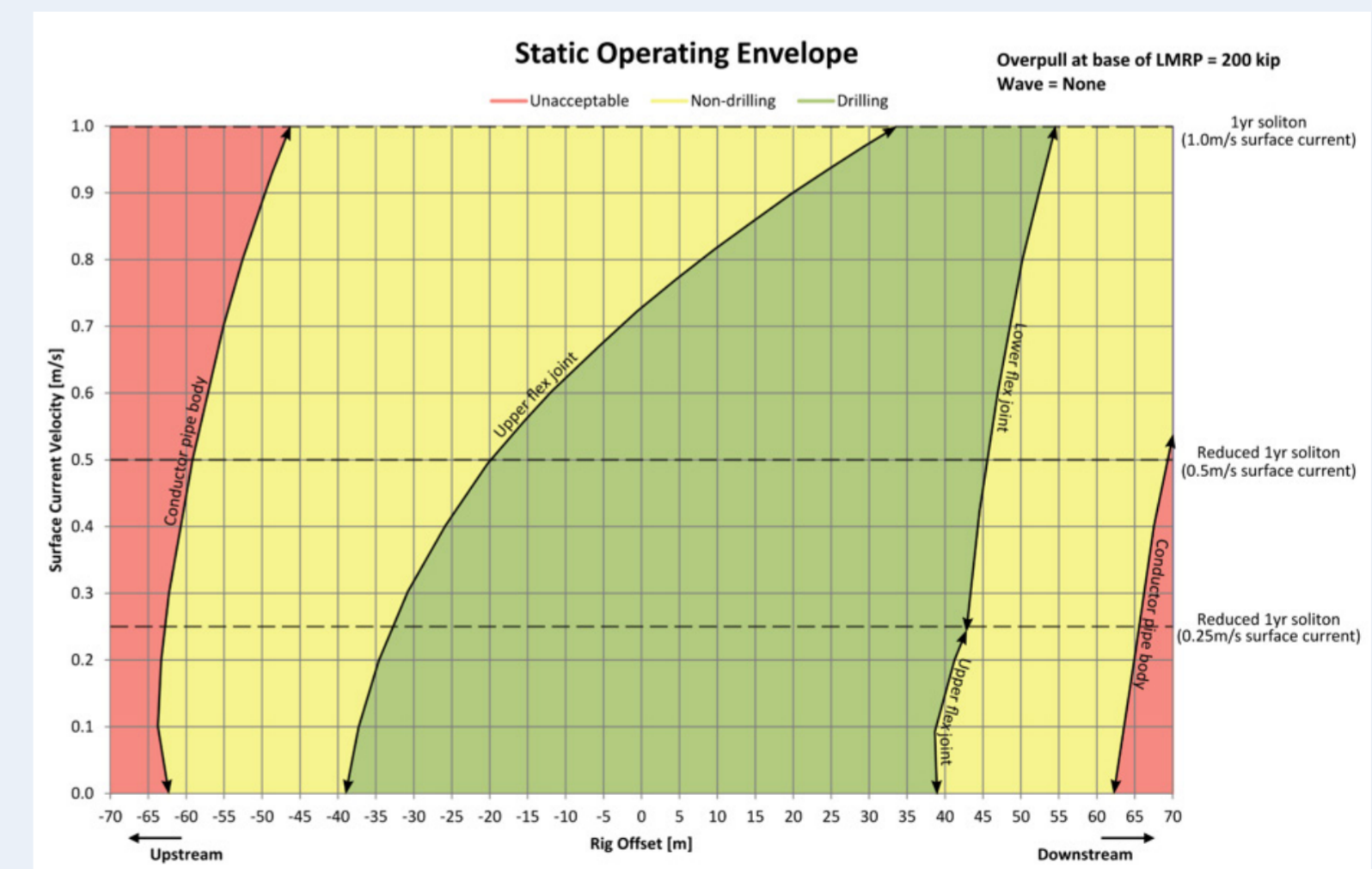
Our semi-sub/ drill ship riser analysis is provided by our in-house team of highly experienced riser analysis team who have been involved in 100's of conductor analyses and have over 80 years' collective experience, with a proven track record in many different locations around the world.

Our analysts are committed to high-quality communication and project management through our managed analysis service. We have dedicated senior analysts for every analysis project we complete, meaning our high-quality standards are always maintained.

Market-leading automation designed specifically for this type of analysis, means we can deliver high-quality analysis at low prices. We provide detailed modelling to represent the planned conductor/ riser system using market-leading software and analytical methods to reduce conservatism and generate the best possible results.

Our in-house Riser Analysis services:

- Provide cost savings through improved equipment selection and reduced rig downtime that far outweighs the cost of the analysis
- Identifies ways to improve your drilling window by optimising space-out and overpull, avoiding expensive downtime during the operation
- Provide you with key operational information, such as optimal overpull, and wellhead fatigue lifetime, to ensure your well is a long-term success
- Reduce risk offshore by having solutions in place, such as knowing your minimum conductor cement returns, minimum conductor wall thickness/ material grade, acceptable connection types, etc.
- Optimise equipment requirements from exploration, production to abandonment



Related Products and Services

Riser Monitoring

Riser and conductor analysis, when completed before an operation occurs, will use environmental data based on previous trends. This will often include conservatism due to uncertainties in the planning operations, such as wave data being based on representative conditions, rather than real-time data. This conservatism can sometimes lead to unnecessary downtime for your operation.

Aquaterra Energy's Riser Monitoring System has been developed to overcome these challenges. It's a digital offshore solution that uses wave radars at the surface and accelerometers and aquadopps mounted along the riser system, to provide operators with real time data from their offshore operations via sensors.

Jack-Up High Pressure Riser Analysis

We've run risers and performed analysis across various different jack-up water depths, for over 285 jack-up rigs and high-pressure risers systems for key players across the world.

This gives us the experience and capabilities to analyse, optimise and deliver high-pressure systems that meet a wide range of offshore requirements and challenges. Common jack-up high-pressure riser analysis includes, but is not limited to:

- Vortex Induced Vibration (VIV) assessment
- Operating envelope analysis
- Wave fatigue analysis

Platform Well Conductor Analysis

From optimising the conductor and its casing sizes, to increasing your operational windows and providing accurate centraliser requirements. Conductor analysis has a vital part to play in your platform well, and ensuring optimal efficiencies through the lifetime of your drilling project. Common platform well analysis includes, but is not limited to:

- Strength and stability analysis
- Wave-induced fatigue analysis
- Drive study and driving fatigue assessment

Riser Systems

Our work across riser systems, riser analysis and efficient well initiation is underpinned by our deep engineering expertise ensuring that whatever solution we design, develop and install meets the needs of each client and each application.

At Aquaterra Energy – as an oil and gas OEM – we offer a range of integrated system packages to enhance operations, save rig time and accelerate time to first oil.

We offer:

- Surface riser systems
- Subsea high-pressure riser systems
- Completion and workover riser systems



Supporting the full offshore energy ecosystem