



ADVANCED ENGINEERING FOR DRILLING APPLICATIONS

As exploration expands into deeper water depths and more challenging areas with more onerous environmental conditions drilling riser operability has become a major issue and a critical part of any operational planning for drilling vessels undertaking exploration or development drilling.

MCS offers a world-class engineering and consultancy service that focuses on a unique, integrated drilling riser solution incorporating analytical expertise combined with operational support knowledge / software that provides an enabling solution for deepwater drilling.

We can provide technical support for feasibility studies, operational support and software for operational planning.

SERVICE

- **Riser & Casing Configuration Optimization**
 - Riser Stack-up
 - Operational Tensions
 - Conductor Casing Sizing
 - VIV Suppression
- **Operability Analysis**
 - Operational Limits
 - Drift-off/Drive-off (DP)
 - Mooring Line Evaluation (Moored)
- **Hang-off Analysis**
 - Hard & Soft Hang-off
 - Riser and Casing Running
- **Failure Investigation**
 - Weak Point Analysis
 - Local FE Analysis
- **Fairings Optimization/Down Time Evaluation**
- **Riser Monitoring**
 - Systems reducing inspection costs and improved fatigue monitoring

CAPABILITY

- MCS bring an integrated solution to a drilling riser project, combining the analytical solution with practical operational experience, software planning tools, and monitoring systems.
- **Proprietary Analytical Software**
 - DeepRiser
 - Flexcom
- **Proprietary Operational Software**
 - DeepDrift
 - DeepLand
 - Iris 3D
- **Recent Client Base**
 - BP
 - Chevron
 - ExxonMobil
 - Petrobras
 - Shell
 - Transocean
 - GlobalSanteFe
 - Dolphin Drilling