

ENGINEERING UMBILICAL SOLUTIONS

Oceaneering Umbilical Solutions (OUS) continues to successfully leverage engineering knowledge and experience in the development of one of the world's leading subsea umbilical and cable connectivity solutions.

Our Expertise

OUS has one of the longest track records within the subsea industry. Our subsea engineering team consists of more than 80 specialists that provide a full range of industry specific engineering needs.

OUS has delivered solutions to every region within the world's subsea market. We are structured to take full advantage of a centralized knowledge base of engineering expertise without sacrificing localized levels of engineering-tailored execution.

Our Services

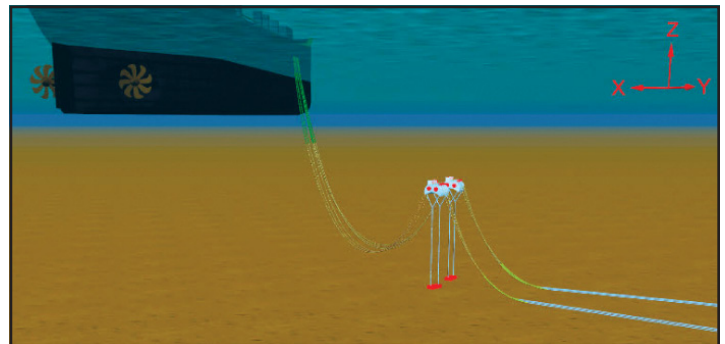
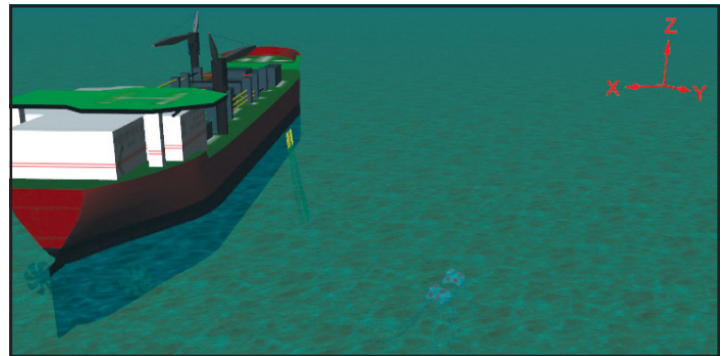
Front End Engineering Design Services – investigate potential solutions and conduct preliminary analysis to develop design concepts.

Concept Design Development – engineering services will refine design concepts and conduct risk profiling to allow cost estimating, planning and procurement strategies to be developed for investment decision making.

Detailed Design – plans go through a rigorous engineering process based on proven methodologies and sound practices to deliver 'best in class' implementation plans.

Execution Engineering – local engineering project teams collaborate with project management and other key functions to deliver to exact client specifications.

Analysis Services – working across the whole design life-cycle using advanced tools



and methodologies to simulate and predict performance of solutions in the intended environment.

Test and Reliability Services – modern state of the art equipment and processes validate materials and structures to the limits of service.



www.oceaneering.com

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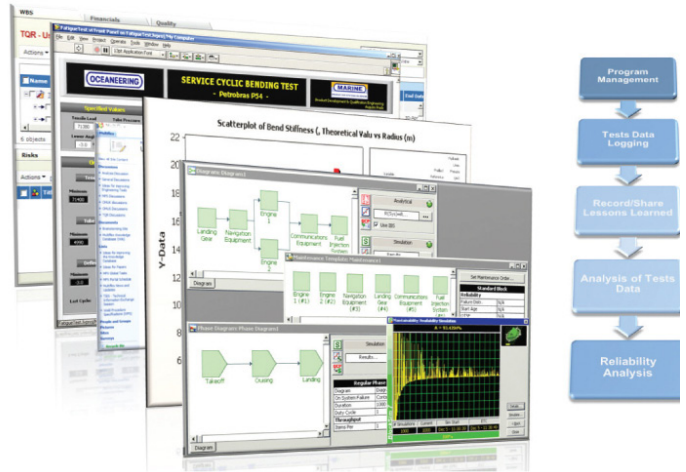
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“Very impressed with your engineering progress, structure and direction; you have listened and responded.” ~ Client quote

Oceaneering delivering solutions

A solid track record of delivering solutions to challenging requirements, often unprecedented in the subsea industry, by applying engineering best practices, coupled with innovation and persistence.

- Gas and Water blocked LV cable solutions qualified and installed yielding less than 1% migration compared to standard cable design
- Designed, qualified and installed load bearing IWOCS umbilicals, for deep water Tree-On-Wire application
- Led the development and application of HCR hose for deep water application and integrated with DPR umbilicals



Oceaneering investing in technology

As operating environments become more severe, setting new challenges for subsea operations, we continue to invest in new technology, tools and applications to ensure we remain an industry leader in providing safe, reliable and robust solutions.

- Deep water and long offset cable gas/ water mitigation and hydrogen permeation solutions
- Intelligent umbilical solutions for self-monitoring of temperature and strain
- New materials and processes for very high pressure and duty cycle hose applications
- Large bore steel tube umbilical applications
- High cycle IWOCS solutions for heavy duty applications
- AC & DC power cables for the offshore renewable energy market

