

Floating System Dept provides professional engineering services of hydrodynamics analysis and mooring system design for all kinds of floaters including FPSO, TLP, SEMI, and SPAR, etc, from concept selection to detailed engineering analysis in compliance with class and industry standards, such as ISO, DNV, ABS, API and BV, etc, COTEC delivers high standard services with qualified engineers and economical solutions.

SCOPE OF SERVICES

- ❖ Floater Hydrodynamics
- ❖ Extreme Motions Evaluation
- ❖ Single Point and Spread Mooring System Design
- ❖ Soft Yoke System Analysis
- ❖ Mooring Line Fatigue Analysis
- ❖ Design Loads and Waves
- ❖ Model Test Assistance
- ❖ DP Capability Analysis

SOFTWARE TOOLS

- ❖ WAMIT
- ❖ Orcaflex
- ❖ BV Ariane
- ❖ AQWA
- ❖ HARP
- ❖ SESAM
- ❖ MOSES
- ❖ MATLAB

REPRESENTATIVE PROJECTS

	<p>CNOOC Enping 24-2 FPSO SPM Basic Design</p> <ul style="list-style-type: none"> • FPSO Motions Analysis • Mooring System Design and Analysis • Turret Design Load • Mooring installation Analysis • Mooring Fatigue Analysis 			
	<p>Rosebank Mooring Design</p> <ul style="list-style-type: none"> • Mooring System Design • FPSO Turret Design Load • Polyester Stiffness Sensitivity • Mooring Optimization 			<p>Liuhua TLP Optimization</p> <ul style="list-style-type: none"> • TLP Sizing Configuration • TLP Hydrodynamics Analysis • Tendon Evaluation • Air Gap Assessment
	<p>Ta’Kuntah Mooring Study</p> <ul style="list-style-type: none"> • PEMEX FSO Global Performance • Mooring System Reevaluation • Multi-Body Dynamics • Offloading Analysis 			<p>Liuhua FPS Life Extension</p> <ul style="list-style-type: none"> • Asymmetric Mooring Analysis • FPS Global Performance • Mooring System Optimization • FPS Offsets in Extreme Conditions
	<p>Panna Calm Mooring</p> <ul style="list-style-type: none"> • FSO Hydrodynamics Analysis • CALM Mooring Response • CALM/FSO Response Analysis • Hawser Loads Analysis 			<p>Soft Yoke Mooring Study</p> <ul style="list-style-type: none"> • Review of Model Test Report • FPSO Global Performance • Mooring Loads Analysis • Shallow Water Full QTF Analysis