



FSRU/FLNG MOORING EVALUATION FASE II

- Jetty mooring evaluation of FSRU in re-gasification terminal
- PETROBRAS/CENPES/2011



PAPA TERRA NUMERICAL REVIEW

- Numerical review of mooring and risers systems for Papa-Terra field
- PETROBRAS/CENPES/2011

FPSO MOORING DESIGN

- Mooring analysis and design of P-34 turret FPSO
- PETROBRAS/2010



P-55 VIM MODEL TESTS

- Model testing on the verification of vortex induced motion (VIM) on P-55 semisubmersible
- PETROBRAS/IPT/2010



MODEL TEST FOR P-IV – PHASE II

- Model test specification and analysis for P-IV jack-up unit
- PETROBRAS / IPT/2010



DRILLING UNITS DP ANALYSIS

- Dynamic positioning evaluation of drillships and semi-submersible rigs for Brazilian environment
- PETROBRAS/ENGENHARIA/2009

P-57 MORRING ANALYSIS

- Mooring reevaluation of FPSO P-57
- PETROBRAS/CENPES/2009



FPSO Mooring Design

- Mooring design of FPSO Cidade de Rio das Ostras for deep water Campos Basin
- PETROBRAS/CENPES/2009

FSRU/FLNG Mooring Evaluation

- Jetty mooring evaluation of FSRU and small scale FLNG for Brazilian waters
- PETROBRAS/CENPES/2009



P-58 DECAY MODEL TESTS

- Model tests for damping evaluation of FPSO P-58
- PETROBRAS/IPT/2009



PERPENDICULAR PIPELINE LAUNCH – PHASE II

- Analysis of pipeline perpendicular launch from the beach
- PETROBRAS/ENGENHARIA/2009



P-IV JACK-UP TRANSPORTATION LIMITS

- Evaluation of the transportation limits of P-IV jack-up unit
- PETROBRAS/CENPES/2009

BGL STRUCTURE ANALYSIS

- Analysis and reinforcement of BGL structure due to stinger loads
- PETROBRAS/ENGENHARIA/2009



PERPENDICULAR PIPELINE LAUNCH

- Preliminary analysis of pipeline perpendicular launch from the beach
- PETROBRAS/ENGENHARIA/2009



MODEL TEST FOR P-IV

- Model test specification and analysis for P-IV jack-up unit
- PETROBRAS/IPT/2008

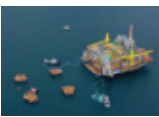
ANALYSIS OF A TUG

- Model tests and numerical analysis of a tug in maneuvering, wind and waves
- PETROBRAS/IPT/USP/2008



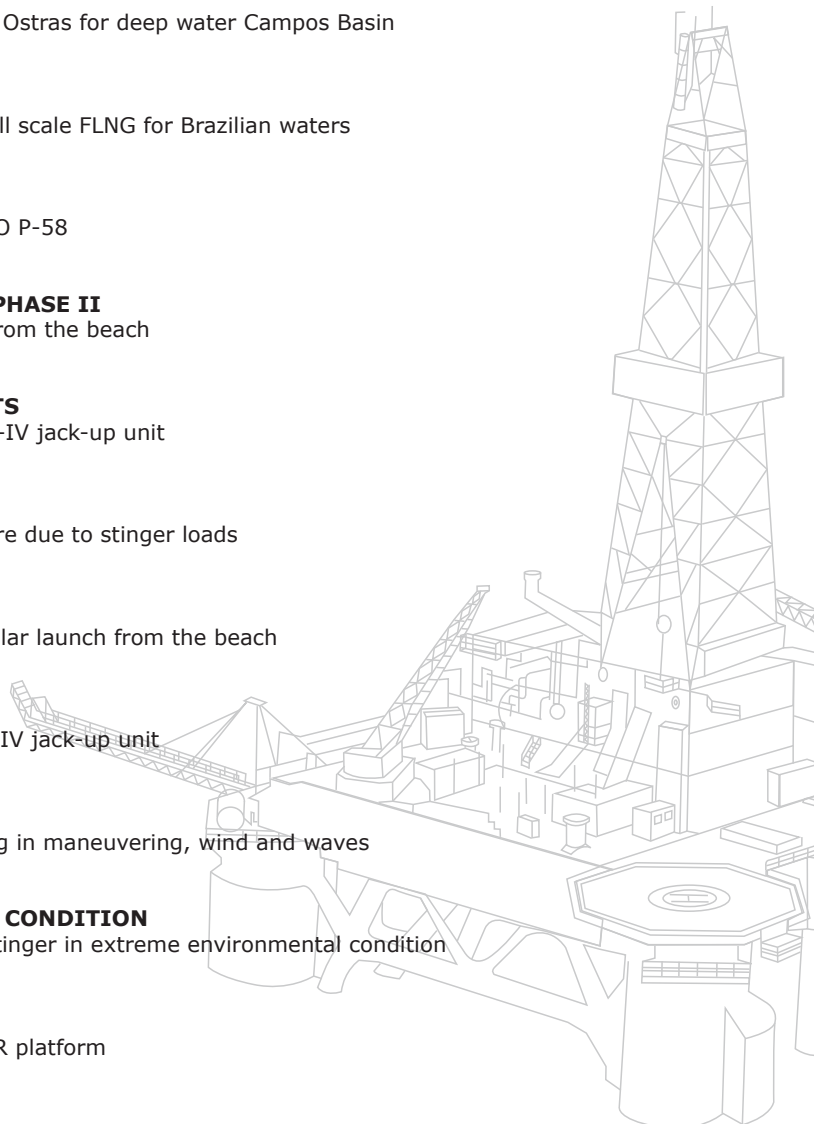
ANALYSIS OF STINGER IV IN EXTREME CONDITION

- Hydrodynamic and structural analysis of stinger in extreme environmental condition
- PETROBRAS/ENGENHARIA/IPT/2008



VIM MODEL TESTS FOR MONOBR

- Experimental verification of VIM in MonoBR platform
- PETROBRAS/2008





PROCEDURE EVALUATION FOR DECAY TESTS

- Evaluation of methodologies for decay test analysis
- PETROBRAS/LABOCEANO/2007



INERTIA EVALUATION OF BGL1 VESSEL

- Evaluation of the mass matrix of the PETROBRAS BGL1 barge
- PETROBRAS/2007

DP ANALYSIS OF A SUEZMAX FPSO

- DP analysis of a FPSO with GTL module for Brazil
- PETROBRAS/2007



MODEL TESTING AND STRUCTURAL ANALYSIS OF BGL STINGER

- Hydrodynamic loading evaluation and structural analysis of a S-lay stinger
- PETROBRAS/ENGENHARIA/IPT/2007-2008



ATB TANKER DYNAMIC EVALUATION

- Dynamic analysis of a ATB (articulated tug barge) tanker during offloading in GoM
- PETROBRAS/ENGEPE/2006

EXPERIMENTAL ANALYSIS FOR MONOBR-GoM

- Specification and analysis of model testing in MARINTEK ocean basin
- PETROBRAS/CENPES/MARINTEK/2006



EXPERIMENTAL ANALYSIS FOR MONOBR P-56

- Specification, preparation and analysis of waves and decay model tests of MONO COLUMN hull
- PETROBRAS/CENPES/LABOCEANO/2006



COMPRESSED NATURAL GAS: TECHNOLOGY EVALUATION

- Technology evaluation, CNG system design, containment evaluation and equipment selection
- PETROBRAS/IPT/2005-2006

OFFSHORE CONCRETE FLOATER FOR OIL PRODUCTION

- Hull design, hydrodynamic analysis and concrete structural design by finite element method
- PETROBRAS/CENPES/USP/2005-2006



RISER CONNECTION ANALYSIS P-34

- Finite element analysis and dynamic evaluation
- PETROBRAS/CENPES/USP/2005

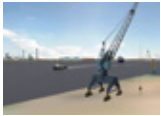
FPSOBR DESIGN AND BASIC ENGINEERING

- Hull design, hydrodynamic analysis, naval architecture, mooring design and project management
- PETROBRAS/CENPES/USP/2004-2005



AIR-GAP ANALYSIS OF P-51 PLATFORM

- Model tests preparation
- PETROBRAS/USP/2004



SUBMERGED BUOY STRUCTURAL ANALYSIS

- Finite element analysis for submerged buoy, including code check
- PETROBRAS/CENPES/USP/2003

EXCLUSION ZONES FOR OFFLOADING

- Definition of offloading exclusion sectors for shuttle tanker operations
- PETROBRAS AMERICA/2011



PAI SUBSEA

- Coupled analysis for turret FPSO with disconnection capability
- PETROBRAS AMERICA/2010

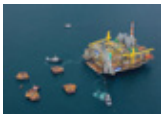


OFFLOADING EVALUATION

- Connection, connected and disconnection evaluation for FPSO in GoM
- PETROBRAS AMERICA/2010

SIMULATION SERVICES FOR OFFLOADING OPERATIONS

- Numerical analysis and operational limits definition for offloading operations in GoM
- PETROBRAS AMERICA/2010



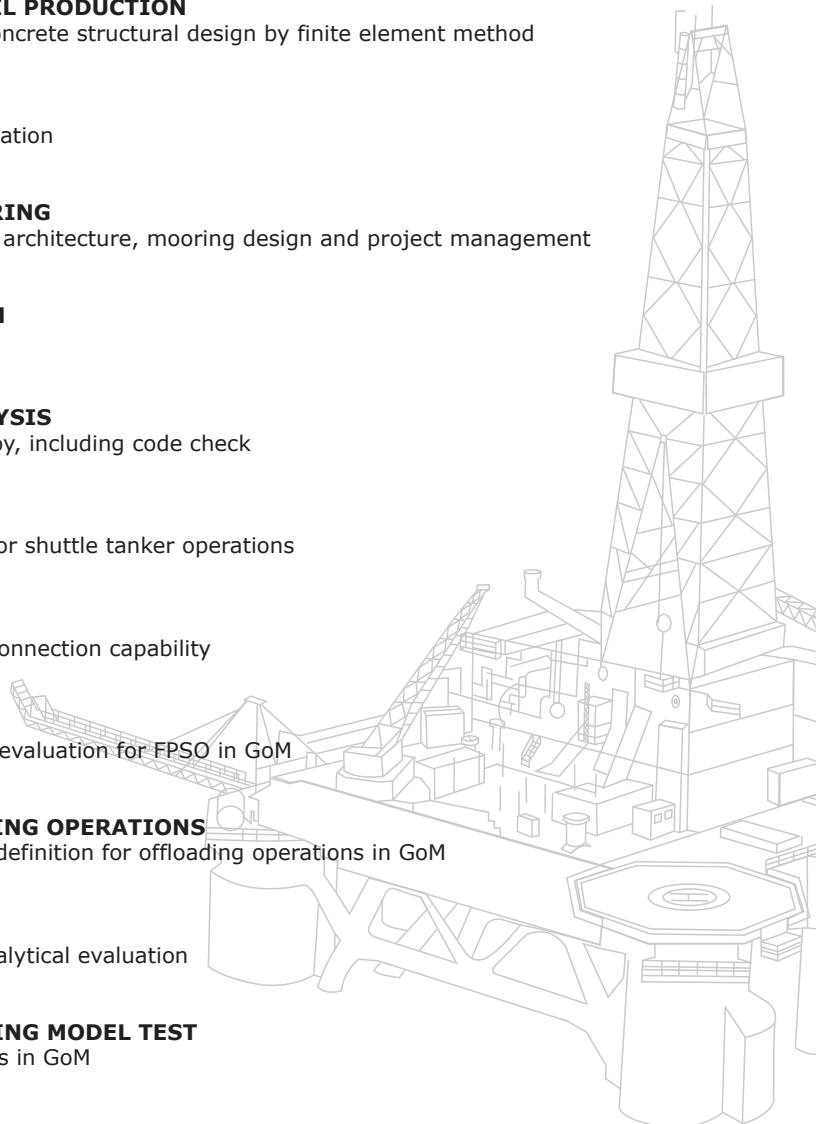
FPSO RESISTANCE MODEL TEST

- FPSO vessel resistance model test and analytical evaluation
- PETROBRAS AMERICA/2008



SIMULATION SERVICES FOR OFFLOADING MODEL TEST

- Numerical analysis of offloading operations in GoM
- PETROBRAS AMERICA/2008





MODEL TESTS OF OFFLOADING OPERATION IN MARIN

- Model tests of offloading operations
- PETROBRAS AMERICA/2008



STATIONKEEPING ANALYSIS FOR EPS FPSO FOR GoM

- Numerical simulations of approaching and connection operations
- PETROBRAS AMERICA/2008



CONSULTANCY IN MODEL TEST FOR EPS FPSO FOR GoM

- Consultancy for preparation, execution and analysis of FPSO model test
- PETROBRAS AMERICA/2007



SHUTTLE TANKER ANALYSIS FOR GoM

- Comparison and downtime evaluation between ATB, conventional tanker and DP tanker as shuttle for GoM
- PETROBRAS AMERICA/2007



MONOCOLUMN DESIGN AND BASIC ENGINEERING FOR GoM

- Hull design, hydrodynamic analysis, naval architecture, structural design, mooring design and project management
- PETROBRAS AMERICA/USP/2004-2006



DP ANALYSIS OF SUEZMAX AND AFRAMAX VESSELS

- Thruster arrangement evaluation, capability study and failure analysis
- TRANSPETRO/2009



COMPRESSED NATURAL GAS: VESSEL DESIGN AND ENGINEERING – PHASE C

- Structural evaluation, collision analysis and ship arrangement evaluation
- TRANSPETRO/USP/2008



COMPRESSED NATURAL GAS: VESSEL DESIGN AND ENGINEERING – PHASE B

- CNG system Design, ship design and process engineering
- TRANSPETRO/USP/2007-2008



COMPRESSED NATURAL GAS: VESSEL DESIGN AND ENGINEERING – PHASE A

- CNG system Design, ship design and process engineering
- TRANSPETRO/USP/2006-2007



INTERFERENCE ANALYSIS OF PIPELINE END MANIFOLD (PLEM)

- VLCC hydrodynamic analysis and dynamic simulation
- TRANSPETRO/USP/2004



POLVO OFFLOADING HOSE ANALYSIS PHASE II

- Verification of hose on Polvo FPSO
- DEVON/2011



POLVO OFFLOADING ANALYSIS

- Verification of offloading operation with the use of synthetic pendant wire
- DEVON/2010



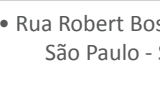
HOSE VERIFICATION

- Verification of dynamic and sinking characteristics on the offloading hose
- DEVON/2010



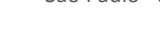
POLVO PENDANT WIRE EVALUATION

- Verification of pendant wire tension in offloading operation in Polvo FPSO
- DEVON/2009



FPSO DP DOWNTIME EVALUATION

- Evaluation of the downtime of a FPSO DP in Campos Basin
- PETROSERV/2007



PETROSERV SUEZMAX FPSO DP ANALYSIS

- Dynamic analysis of a DP system for a FPSO
- PETROSERV/2007



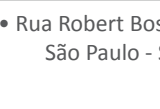
PETROSERV FPSO HYDRODYNAMIC ANALYSIS

- Hydrodynamic study of a FPSO
- PETROSERV/2007



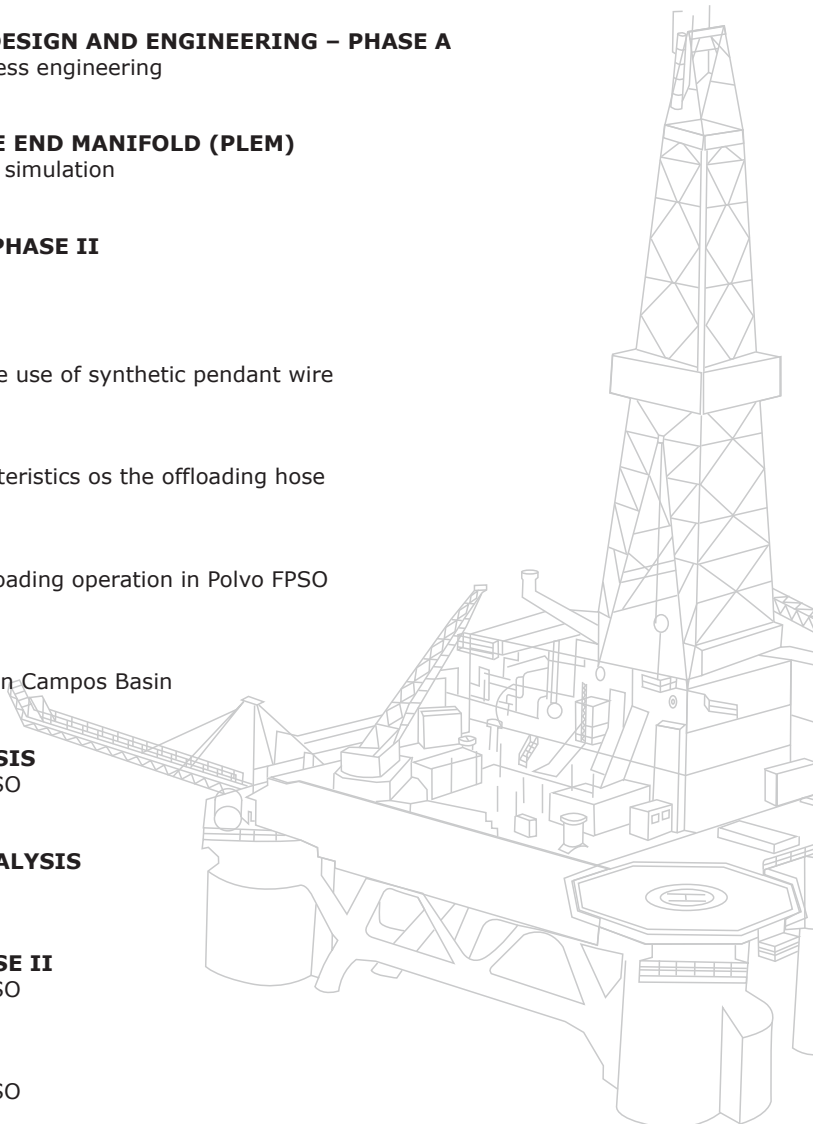
PETROSERV FPSO DP ANALYSIS – PHASE II

- Dynamic analysis of a DP system for a FPSO
- PETROSERV/2007



PETROSERV FPSO DP ANALYSIS

- Dynamic analysis of a DP system for a FPSO
- PETROSERV/2006





SS-51 LOUISIANA HYDRODYNAMIC ANALYSIS

- Inertia evaluation and hydrodynamic analysis
- PETROSERV/2005



SEVAN SSP-300 PIRANEMA EXPERIMENTAL TESTS

- Specification, preparation and analysis of waves, decay, VIM, wind and current model tests
- SEVAN MARINE/2005-2007



ASSESSMENT IN THE STRUCTURAL EVALUATION OF CAR BUMPER

- Dynamic structural analysis of a car bumper by finite element method
- SMARTECH/2006



SOFTWARE DEVELOPMENT FOR FLOATING UNITS MODEL TESTING

- Software development for model test analysis
- IPT/2006



TITAN II RISK ANALYSIS – PHASE I

- DP capability evaluation, hydrodynamic analysis, relative motion analysis and risk analysis for crane catamaran
- GAIA/GLOBAL INDUSTRIES/2007

STRUTURAL ANALYSIS OF TRANSPORTATION SKID

- Structural analysis by Finite Element Method of steel skid for tool transportation
- GASOIL/2008



STRUCTURAL ANALYSIS OF A DRILLING TOOL

- Structural analysis by finite element method of tension ring support tool
- GASOIL/2007



RISER TRANSPORT STRUCTURE ANALYSIS

- Structural analysis by finite element method of a truss structure for riser transportation
- GASOIL/2006



ASSESSMENT IN THE STRUCTURAL EVALUATION OF THE P-53 LOWER HULL

- Assessment in turret structural analysis of the PETROBRAS P-53 unit
- PROJEMAR S.A./2006

HAKURYU V MOORING DESIGN

- Mooring design of MODU for Brazil, GoM and West Africa
- EXMAR OFFSHORE/2006



OLINDA STAR CELLAR DECK STRUCTURAL PROJECT EVALUATION

- Evaluation of structural arrangement for the drilling rig cellar deck
- QUEIROZ GALVÃO ÓLEO E GÁS/2008



DRILLING RIGS RISER DESIGN EVALUATION

- Evaluation of riser design for Olinda, Gold and Lone Star platforms
- QUEIROZ GALVÃO ÓLEO E GÁS/2008



OLINDA STAR DERRICK REACTION EVALUATION

- FEA of the Derrick evaluating reactions on the substructure
- QUEIROZ GALVÃO ÓLEO E GÁS/2007



OLINDA STAR SUBSTRUCTURE STRUCTURAL ANALYSIS

- FEA of the drilling rig substructure
- QUEIROZ GALVÃO ÓLEO E GÁS/2007



JACK-UP LAUNCH MODEL TEST SUPPORT

- Support for the model testing of a jack-up launch from a barge
- ODEBRECHT/RIO PARAGUAÇU CONSORTIUM/2009

MOTION, WIND AND CURRENT EVALUATION OF A SEMI-SUBMERSIBLE

- Hydrodynamic analysis and wind/current force evaluation of a SS
- GLOBAL MARITIME US/2008



PIPELAYING ENGINEERING SERVICES FOR JUBARTE FIELD

- Wall thickness, hydrodynamic stability, free span and installation analysis of a pipeline
- ACERGY GROUP/2007



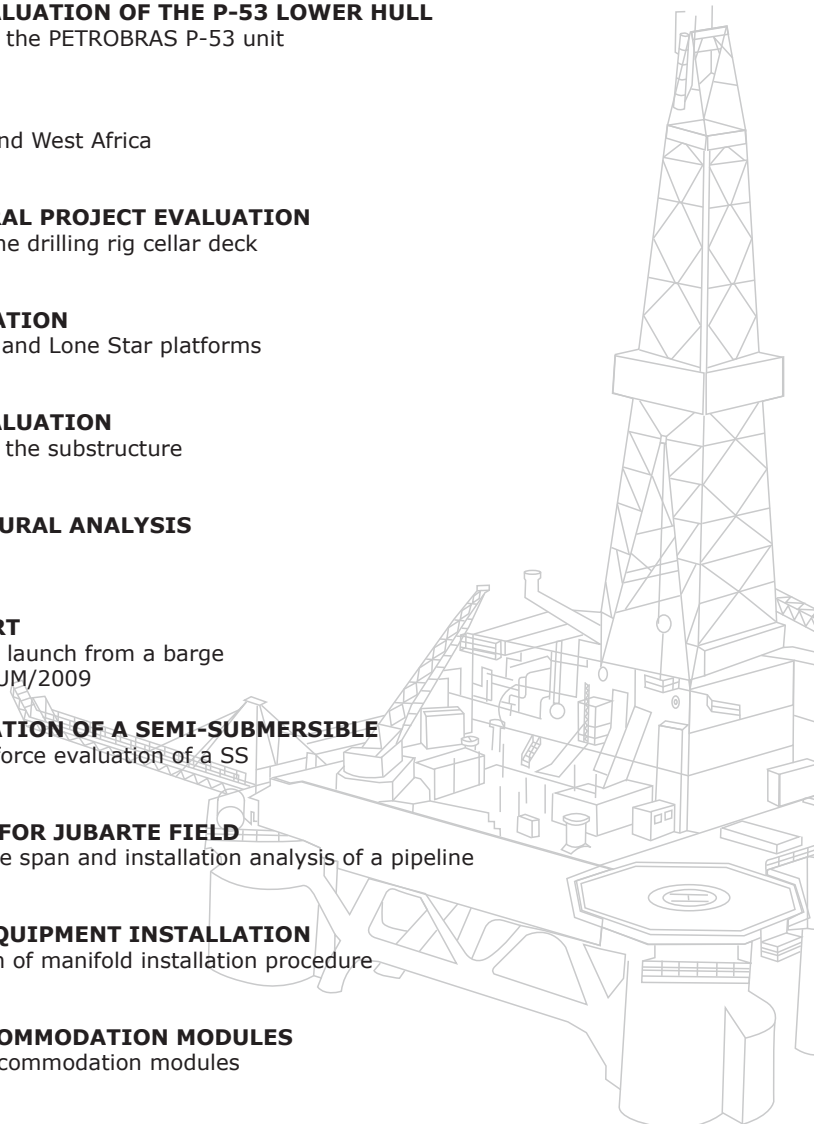
THIRD PARTY ANALYSIS OF SUBSEA EQUIPMENT INSTALLATION

- Quality assurance and technical evaluation of manifold installation procedure
- ACERGY GROUP/2009



STRUCTURAL ANALYSIS FOR P-53 ACCOMMODATION MODULES

- Finite Element Method analysis of P-53 accommodation modules
- GRUPO TECNOLITE/2007





HYDRODYNAMIC ANALYSIS OF A PIPELAYING BARGE

- Hydrodynamic evaluation of a shallow water pipelaying barge
- SWIBER HOLLDDINGS/2008



MOTION AND DOWNTIME ANALYSIS OF A DRILLING BARGE

- Risers evaluation, motion evaluation and downtime analysis of a drilling barge
- SWIBER HOLLDDINGS/2008



STABILITY ANALYSIS OF AHTS

- Intact stability analysis of AHTS vessel
- CONTINENTAL MÁQUINAS/2008



ELECTRICAL CABLE LAYING ANALYSIS

- Installation, pull-in and laying analysis of electrical cable
- CONTINENTAL MÁQUINAS/2008

STRUCTURAL ANALYSIS OF CABLE REEL SUPPORT

- Structural analysis, be Finite Element Method, of electrical cable reel support
- CONTINENTAL MÁQUINAS/2008



HYDRODYNAMIC AND STABILITY ANALYSIS OF INSTALLATION BARGE

- Motion evaluation, intact and damaged stability analysis of installation barge
- FMC TECHNOLOGIES/2008



SS STABILITY ANALYSIS

- Stability evaluation on drilling units P-14 and P-17 upgrades
- TECHNIP/2010

P-62 STRUCTURAL ANALYSIS

- Global structural analysis of FPSO P-62 using FEM
- TECHNIP/2009



MONOCOLUMN MODEL TEST SUPPORT

- Technical support and quality assurance on the model testing of a monocolumn unit
- SSP OFFSHORE/2009



UMBILICAL DYNAMIC ANALYSIS

- Umbilical dynamic analysis of Petrobras platforms P-25, P-37, P-43, P-48 and FPSO Capixaba
- MARINE OCEANEERING/2010

SUPERPESA VI STABILITY ANALYSIS

- Trim and stability booklet preparation of Superpesa VI barge
- SUPERPESA/2009



SUPERPESA VIII STABILITY ANALYSIS

- Trim and stability booklet preparation of Superpesa VIII barge
- SUPERPESA/2009



WORK BARGE ANALYSIS

- Naval architecture and structure analysis for work barges classification
- SUPERPESA/2009



SUPPLY BOAT TERMINAL DESIGN

- Evaluation of nautical aspects in the design of a supply boat terminal
- EGT ENGENHARIA/2009



TUG ASSISTANCE TOOL FOR PILOTS

- Supply of tug assistance software for pilots operation
- PRÁTICOS DA BARRA DO RIO GRANDE/2010

STABILITY SOFTWARE EVALUATION FOR SUPPLY VESSELS

- Software evaluation and course development for stability analysis of supply vessels
- DELBA MARÍTIMA/2010



BOP LIFTING EQUIPMENT DESIGN

- Structural analysis of the BOP lifting equipment design
- LUPATECH OIL & GAS ERVICES/2011



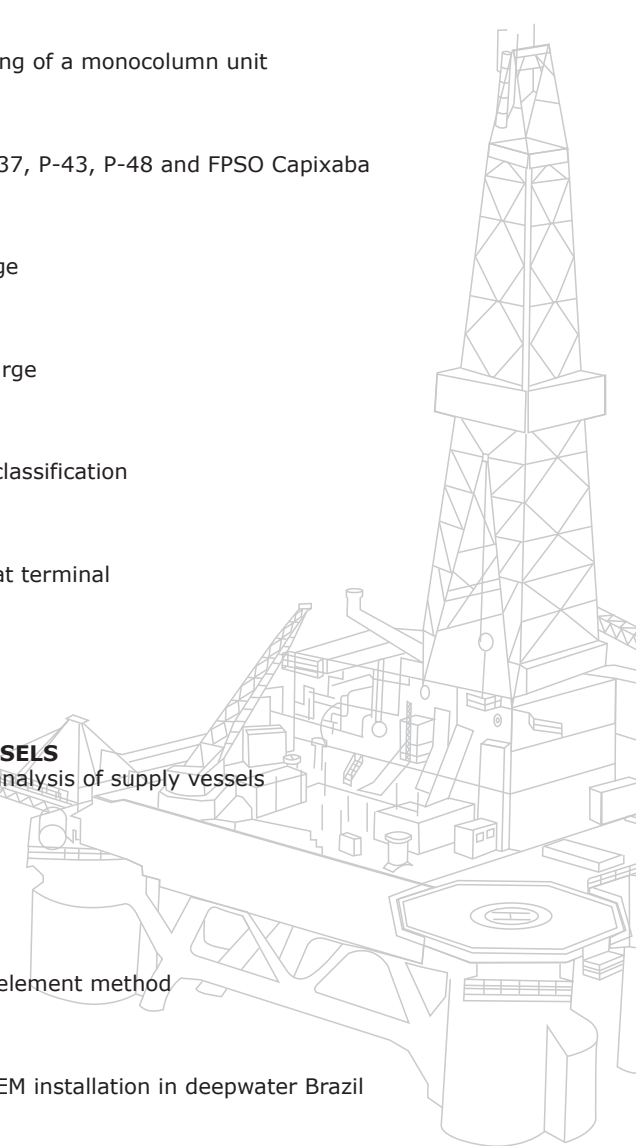
FLANGED ADAPTER FOR PIPE

- Structural analysis of flanged adapter for pipe using finite element method
- LUPATECH/2010



PLEM INSTALLATION ANALYSIS

- Dynamic evaluation, through time domain simulator, of PLEM installation in deepwater Brazil
- VETCO - GE Oil & Gas/2010





OSX/OGX FPSO MOORING ANALYSIS

- Evaluation of mooring concepts for turret FPSO located in shallow waters
- INTERMOOR/2010



CPV ANALYSIS

- Preliminary analysis (powering, seakeeping and maneuvering) for the design of a Coastal Patrol Vessel
- COTECMAR/2010



MANEUVERING ANALYSIS ON TERMINAL DESIGN

- Fast time maneuvering analysis in the Sepetiba terminal
- CONCREMAT/2010



TLP MODEL TEST SUPPORT

- Support on model testing of Petrobras P-61 model testing at LabOceano ocean basin
- MARIN/2010



TANKER PRELIMINARY DESIGN

- Pre-conceptual engineering for tanker structure, arrangement and general systems
- ENGEVIX/2011



FPSO MODEL TEST SUPPORT

- Technical support and quality assurance on the model testing of new build FPSO
- ENGEVIX/2010



MOORING ANALYSIS WITH HPME

- Design and analysis of ultra-deepwater FPSO mooring system with HMPE
- BRASKEM/2010



MANEUVERING ANALYSIS ON TERMINAL DESIGN

- Fast time maneuvering analysis for terminal
- EMBRAPORT/2010



PLEM INSTALATION ANALYSIS

- Dynamic evaluation, through time domain simulator, of PLEM installation
- DRIL QUIP/2011



LOCAR V STRUCTURAL ANALYSIS

- MidShip Section analysis and Suggestions for reinforcements
- LOCAR/2011

MANEUVERING ANALYSIS FOR ANCHIETA TERMINAL

- Fast time simulations for maneuvering analysis of Anchieta terminal
- AUSENCO SANDWELL/2011

