OET LLC

HOUSTON, TEXAS

OFFSHORE ENGINEERING

SHIP DESIGN

NAVAL ARCHITECTURE

MARINE SOFTWARE

A Joint Venture

Cybermarine | MDO MARINE DESIGN and OPERATIONS, INC.

'OET LLC' is a teaming of forces of two well established Naval Architectural and Marine Engineering firms of excellent reputation, in order to offer the best value in related technical services to the Houston Offshore Industry.

Cybermarine, established in 1992, is one of the leading Naval Architecture firms with offices in Mumbai, India and Singapore.

Marine Design and Operations, Inc. established in 1981, is one of the firms recognized by reputation for service and value among U.S Shipowners and the United States Government (D.O.T. – Maritime Administration). MDO, Inc. has offices in New Jersey and California.

Together, we bring the required resources, technical staff, tools and years of experience that will allow us to be a unique service provider to our customers in Houston.

Cybermarine is a leading Marine / Oil & Gas engineering solutions provider dominating the Indian market and having a significant presence in the Far East. ***Cybermarine*** through its offices in ***India*** & ***Singapore*** has been providing Ship & Offshore Structure Design Services with a varied portfolio of services and products catering to different segments of Marine / Oil & Gas industry.

Our focus on technology and continuous development of trained engineers enabled us to serve the rapidly growing Asian markets and make forays into European markets. Our operations are spread across the industry with an aim to efficiently cater to the specific requirements of a particular segment.

DESIGN & ENGINEERING SOLUTIONS

- SHIP DESIGN
- MARINE ENGINEERING
- OIL & GAS

SOFTWARE PRODUCTS & SERVICES

Cybermarine develops various operations related software applications for the Marine Industry that can be deployed onboard the vessels as well as the offices.

Cybermarine's Flagship product, Loading/Stability Program, *Cybermaster* has more than 350 installations worldwide, covering all types of vessels and with approval from all major Classification Societies. *Cybermaster's* Rig and Semi sub versions have also got a good acclaim from the operators.

TECHNICAL CAPABILITIES

- Finite Element Analysis using high end tools
- Naval Architecture and Ship Design
- Damage Stability and Intact Stability Analysis
- Longitudinal / Global Strength Analysis
- Equipment Layouts and Ergonomics
- Detailed Classification Rules based calculations
- SOLAS and other regulatory compliances
- Ships Systems design and specifications

SERVICE SEGMENTS

- **MARINE INDUSTRY**
  - Ship owners
  - Ship Managers
  - Shipyards

- **OIL & GAS**
  - Jackup Rig and Floater owners
  - Downstream oil production companies
  - Offshore Support Vessel owners
  - Offshore drilling contractors
  - Offshore construction companies
  - Tug/barge owners
  - ODC transporters

Marine Design and Operations, Inc., established in 1981, is a group of multi-disciplinary professionals providing diversified technical and management consulting services to the marine industry.

Our offices are located in ***Kenilworth, New Jersey*** & ***Cupertino, California***. We are conveniently located nearby many of the harbor port facilities, shipyards, classification societies, governmental offices, shipping companies and marine equipment suppliers.

In addition, ***Marine Design and Operations, Inc.*** has working associations with individuals and groups in many countries throughout the world, thereby creating a network of engineering talent capable of immediate response to requests for important services.

Our professional staff and associates of ***Marine Design and Operations, Inc.*** possesses a wide range of formal education and training in areas including naval architecture, marine engineering, mechanical engineering, electrical engineering, management science, ship construction and transportation operations.

This training is combined with extensive professional experience as consulting naval architects, ship's engineers and vessel technical and operations management. The work experience and services offered by ***Marine Design and Operations, Inc.*** can be characterized in several broad categories:

- **Naval Architecture and Marine Engineering**
- **Owner's representation and supervision for new construction, repairs and major modification of vessels**
- **Vessel and intermodal equipment surveys and analyses**
- **Vessel Reflagging**
- **Technical Documentation**
- **Technical and Management Consulting**
- **Economic and feasibility studies for marine transportation and engineering projects**

- **Naval Architecture and Marine Engineering / Owner's representation and supervision for vessel new construction, repairs and major modification**

This category of work is our primary business and includes preliminary, contract and detailed vessel design and preparation of specifications for new construction, repairs or major modifications of many types of vessels and ship's machinery and electrical systems.

KEY PERSONNEL

- **RAJ SENGUPTA**

  Mr. Raj Sengupta is one of the Principals of ***Marine Design and Operations, Inc.*** With a professional career of more than thirty years, he has extensive experience and skills in a broad range of activities. Among these are:

  - Vessel design and construction supervision
  - Vessel technical and economic evaluation
  - Vessel surveys, damage investigation, safety studies and failure analyses
  - Project feasibility studies
  - Intermodal equipment surveys and construction supervision
  - Computer based systems for technical analysis and management information
  - Expert witness/investigations relating to Admiralty Casualties
  - Re-flagging of foreign vessels to U.S. Registry

- **VINEETH K. VIBHU**

  Mr. Vineeth K. Vibhu is a Senior Engineer of ***Marine Design and Operations, Inc.*** Graduate in Naval Architecture & Ship Building from Cochin University of Science & Technology, India. He has professional experience of more than six years in the field of Naval Architecture & Offshore Engineering. Prior to joining Marine Design and Operations, Inc., Mr. Vibhu was a Naval Architect/Offshore Engineer with Cybermarine. He has carried out various ship design, offshore structure design and conversion projects. His career expertise includes:

  - Naval Architecture Calculations & drawings
  - Marine Safety Systems
  - Offshore Structures
  - Project Execution

♦ **MICHAEL CHANG**

Mr. Chang is one of the Principals of Marine Design and Operations, Inc. He has over twenty two years experience in the design, construction, repair and conversion of ships. He specializes in the design, construction and installation of ship's main and auxiliary machinery systems. Mr. Chang has extensive experience and skills in a broad range of activities. Among these are:

- Vessel design and construction;
- Reflagging of foreign vessels to U.S. flag;
- Supervision and inspection of ship construction;
- Ship surveys, damage studies;
- Conceptual designs and feasibility studies;
- Terminal and port development; and
- Design and construction of engineering models for forensic use and presentations.

♦ **ARKADIUSZ GACZEWSKI**

Mr. Gaczewski is one of the Principals of Marine Design and Operations, Inc. He is involved in a variety of technical projects involving basic naval architecture, ship structural analysis, and basic ship design for conversion and new construction. Mr. Gaczewski has been involved with several projects as on-site steel inspector for Horizon Lines, Navieras, MARAD and others. His on-site work includes supervision of work according to specifications, surveys, and identifying emergent work and writing specifications and preparing fabrication drawings. He is also able to perform structural analysis of emergent work and engineer the most efficient repair or design change in accordance with regulatory requirements.

♦ **BHASKER RAO**

A Naval Architect (B Tech) with an experience of 25 years, from Indian Institute of Technology, Chennal, India in 1983. He is experienced in the field of Ship Design and Ship/Offshore Structures, major ship conversions and jack up rig modifications and has handled offshore Naval Architectural and structural engineering for various rig structures. He heads the Cybermarine Group and also the Indian Operations of Cybermarine

- **ARVIND DHUPKAR**

  A Naval Architect (B Tech) with an experience of 25 years, from Indian Institute of Technology, Chennai , India in 1983. He is experienced in the field of Ship Design Offshore Structure Design and Software Development. He has been handling Design projects involving Ship Conversions and Modifications to Rigs and Offshore structures. He heads the Singapore Operations of Cybermarine

- **JAIKRISHNAN R**

  Graduate in Naval Architecture from Cochin University & Has been working for 8 years in Cybermarine. His expertise includes Marine Engineering, Safety systems and project management for ship modification. At Cybermarine, he handles offshore structure modification deliveries and client interface.

- **RANJITH KUMAR**

  Graduate in Naval Architecture from Cochin University & Has been working for 8 years. His profile includes good experience in ship stability, offshore structure modification and loading program development and delivery support.

- **SUDHEESH R**

  Post-graduate in Naval Architecture from University of Strathclyde, UK and has been working for 7 years. He manages the offshore and ship structure related calculations and assist in project management for major vessel up gradations and conversions

  - Offshore structure design and Analysis
  - Naval architecture and ship design
  - Classification rules and plan approvals

TOOLS

As high-end tools are a pre-requisite to deliver complete Design and Engineering calculations, we have invested in proven design tools widely accepted in our industry.

Our Engineers and Draftsmen are continuously trained to use all the tools at their disposal in a seamless manner to cover the entire gamut of engineering solutions to a wide spectrum of industry requirements.

- **SACS** - **(Structural Analysis Computer System) -** SACS is a finite element structural analysis suite of programs for the offshore engineering industry.

- **SESAM -** A comprehensive structural and hydrodynamic analysis software from DNV for floating structures, typically semi-submersibles, spar buoys, tension leg platforms, barges, floating terminals and off-loading buoys.

- **ALGOR FEA – (Finite Element Analysis)** An FEA program with wide range of simulation capabilities including static stress and Mechanical Event Simulation (MES) with linear and nonlinear material models.

- **Nastran FEA –** is general purpose finite element analysis software that leads in linear and nonlinear stress, heat transfer, thermal and modal analysis of structures and mechanical components.

- **GT STRUDLL –** Structural analysis software, using finite element method to analyze trusses, beams, plate panels etc.

- **CYBERMASTER -** An onboard Ship Load Indicating Program used to analyze various Intact and Damage Stability conditions for basic hull design and sub-division assignment.

- **CYBERHYDRO -** A naval architecture tool, for the computation of hydrostatics of floating structures. It can generate hydrostatics, as well as CROSS CURVES (KN TABLES) considering trim and list of the vessel

- **CYBERPOWER -** A naval architecture tool, for carrying out Ship Resistance and Powering Calculations as well as Propeller Design Calculations.

- **PC-SHCP -** A complete ship design package for the calculation of stability and longitudinal strength. The program allows you to define hull geometry, perform calculations, and produce graphics and print reports.

- **Maxsurf -** is an integrated CAD/CAM software for design, analysis and construction of all Marine vessels. Used for hull modeling and design using separate surfaces for hulls, hull panels, decks, superstructures, keels and bulbs.

- **NavCAD -** is a software tool for the prediction and analysis of vessel speed and power performance. It also provides for the selection of suitable propulsion system components - engines, gears and propellers.

- **SHIP-MO PC -** is a ship motions prediction package, applying an evolved version of strip theory to calculate ship motions response amplitude operators in six degrees of freedom.

- **Optimoor – Ship Mooring Program** - is a mooring analysis computer program based on the OCIMF recommendations, used to check the feasibility of mooring in various circumstances, to plan mooring arrangements in advance, and to aid in actually managing the mooring.

- **AutoCAD – (Computer Aided Design)** is a collection of programs for two- and three-dimensional design of physical objects. It is the most widely used computer aided design software in engineering.

- **Rhinoceros – NURBS Modeling –** is a high end 3D modeling software and a companion to other CAD/CAM tools including Rhino Marine, Fast Ship, GHS, MaxSurf, Tribon, AutoShip, AutoCAD, ShipCAM, as well as most FEA analysis products including ALGOR, Nastran, SACS, SESAM etc.

- **HYDROFLOW –** models systems conveying incompressible fluids and solves for the full-pipe, steady-state pressures and flows. It assists designers in the modeling and analysis of single source/single discharge, re-circulating and gravity flow.

- **PumpBase** – is a complete pump curve database for access and editing and communicates with HYDROFLO for system curve development. This software has quick affinity law conversions for speed and trim. It has extensive and editable liquid property database and automatic viscosity corrections to pump curves. Efficiency and NPSHR curves are plotted on pump graphics.

- **HCALC -** solves for head loss, diameter, flow, pipe area, velocity, Reynolds number and friction factor using the Darcy-Weisbach, Hazen-Williams or Manning's equations. HCALC converts values between various common units. A very useful tool for engineers.

- **ABS Rule Manager -** is an interactive on-line database providing a quick and easy way to access the ABS Rules, Guides and Guidance Notes as well as numerous IMO Regulations, Codes, etc.

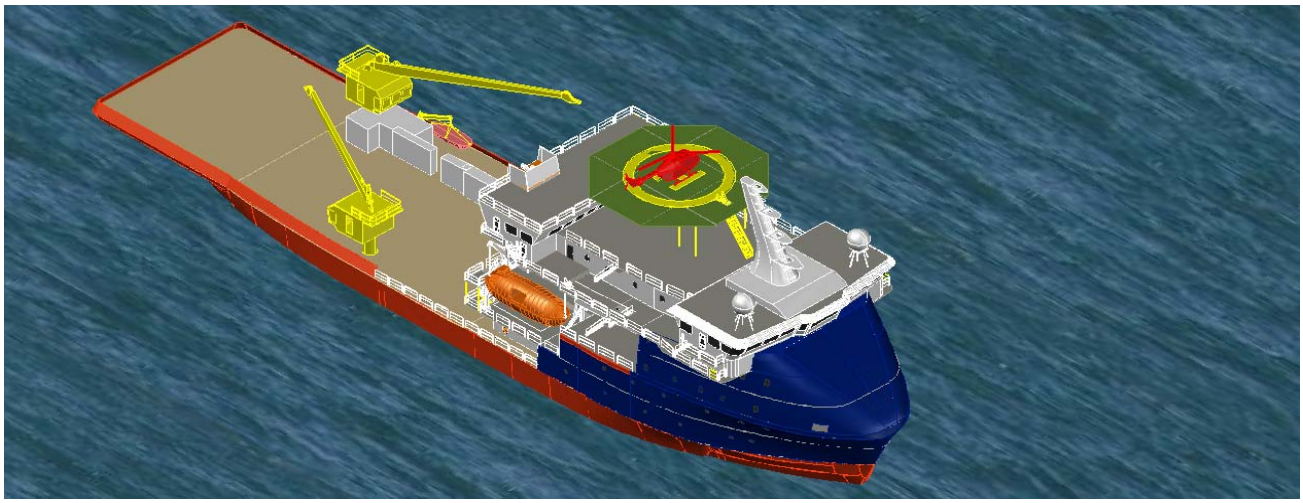
MAJOR PROJECTS

ABAN ICE DRILL SHIP

The drill ship ABAN ICE is undergoing the replacement of its power generation equipments with new set of prime movers and gensets. This replacement is to upgrade the power generation to suit VFD requirements and also to enhance the general onboard power generation for drilling activities.

This was achieved by removing the existing 05 nos diesel engine generator sets and replacing with 04 nos diesel engine driven generator sets. These power generators are equipped with control and management stations situated at the new SCR location.

- Upgradation to SCR System
- New Power Generation Equipments
- New Hi-pressure mud system
- Revamp of Fire-fighting System
- Detailed Engineering for Shipyard



HALANI - 1 [DSV]

Design and Engineering for converting this Ro-Ro vessel to a DP-3 Diving Support Vessel. The vessel is upgraded with the following features:

- An aesthetic superstructure able to accommodate 250 persons.
- Helideck complying CAP437.
- DP 3 capabilities, with Damage stability compliance and Fire protection compliance
- All SOLAS, SPS requirements compliance.

The vessel is presently undergoing modifications in a Chinese Shipyard. We are providing onsite engineering support to the yard for erection and installation.

- Enhanced to Fi-Fi 2 Capability
- Dynamic Positioning category 3
- Addition of Thrusters
- Major accommodation upgrade
- Addition of sponsons to hull

SEAMEC PRINCESS [DSV]

A Cable laying vessel redesigned to a sophisticated Diving Support Vessel with the following features:

- Novel Design adopted with diving equipment mounted at a lower deck and upper deck completely available for working.
- Upper deck redesigned to enhance the deck strength from 1.0 t/m2 to 10.0 t/m2 only by addition of longitudinal girders.
- A double walled moonpool for SAT diving designed
- Helideck Installation & support structure designed and also to comply CAP437.
- Deck cargo carrying capacity increased from 1t/m2 to 10t/m2.
- Fi-Fi 2 system designed
- Redesign carried out to the Stringent requirements of DNV.
- All SOLAS, SPS requirements complied.

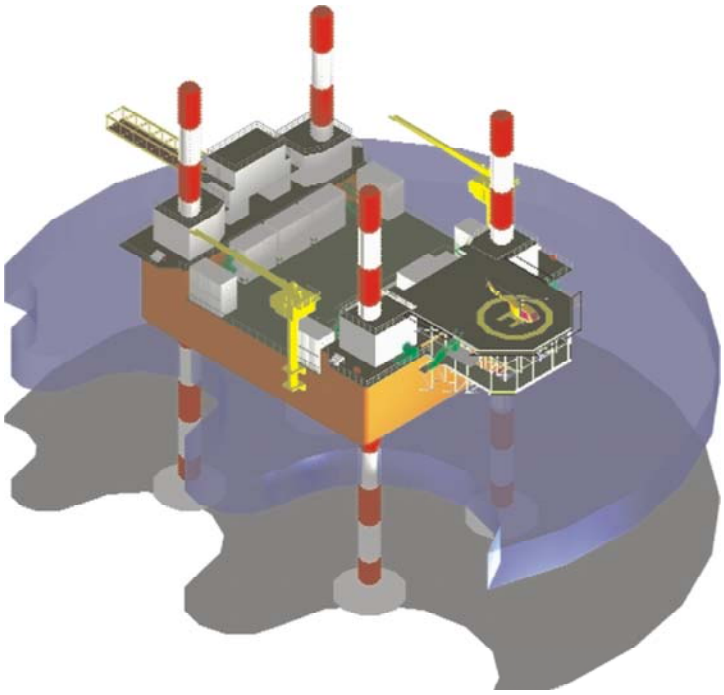
The vessel after undergoing modifications has been successfully operating for the last six months in the Persian Gulf region.

- Cable Laying Vessel converted to Diving Support Vessel
- Increase in accommodation from 65 to 130
- Introduction of moonpool with diving arrangement
- DP system was enhanced to DP-2 capability
- Fi-Fi 2 system designed and Helideck Design & Engineering

GERIMAL MSV

A simple Offshore Supply Vessel converted to a DP II compliant Diving Support Vessel. The vessel after undergoing modifications has been successfully operating for the last Fifteen months in the Persian Gulf region.

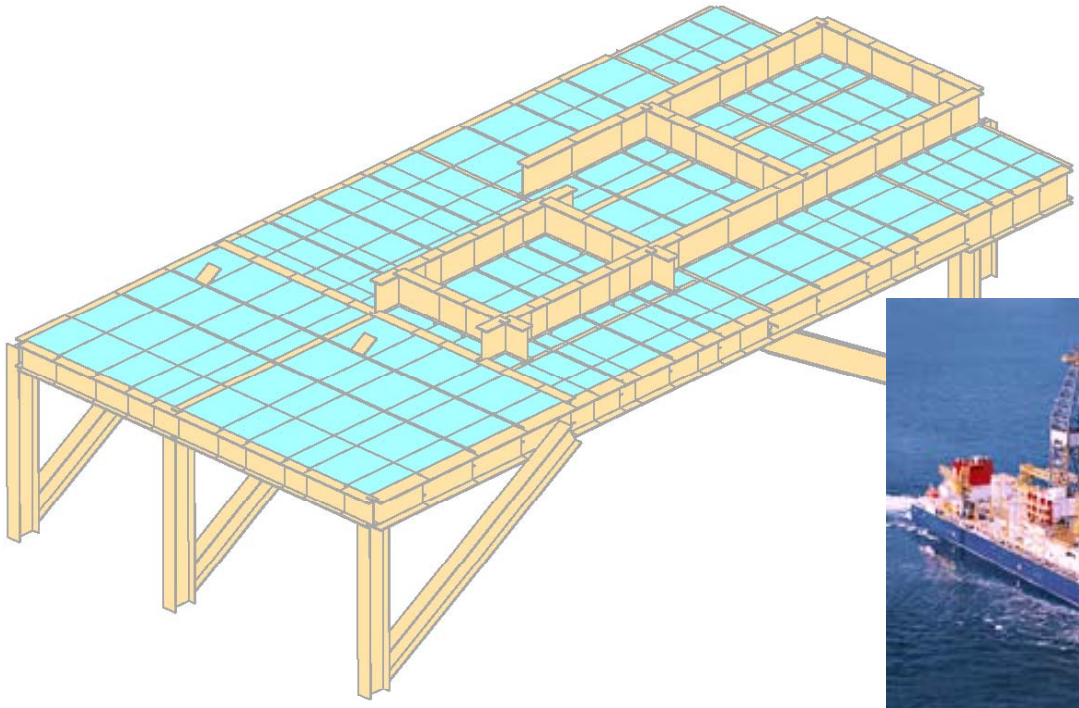
- Innovative Design adopted which provides an upper deck completely available for working. Upper deck designed as a strength deck but not as a Freeboard deck thereby saving considerable space on upper deck.
- Sponsons designed for enhancement of stability, space and deadweight.
- The design incorporates Moonpool for SAT diving
- DP2 capabilities designed & added by fitment of tunnel thrusters and HIPAP, Tautwire etc.
- Deck Crane Fitted of 40T Capacity
- Increase in accommodation from 22 to 75
- Hull Jumboisation by increase in Breadth
- Designed for SPS compliance



SEAFOX 6 (EX. BANJAKU)

Seafox 6 was upgraded to a higher environmental condition required for the vessel to be deployed for a new project. Major Hull modifications were carried out to satisfy the jacked-up conditions apart from increasing the leg length. The vessel underwent various other structural modifications to upgrade itself to higher operational requirements. We carried out the required engineering and detailing scope which included global structural analysis and specific local structural analysis using high end finite element modeling tools.

- Jumboisation of The Hull
- Jacked up Stability & Intact Stability
- Complete refurbishment of Jackup
- All documentation
- Increase leg length, Higher Operating environment
- New raw water tower, mooring arrangement
- Global analysis, Engineering calculation as per ABS MODU



DEEP WATER FRONTIER
(ROV INSTALLATION)

The Vessel 'Deep Water Frontier', which is a high end drillship owned by 'Transocean Inc.', required to have a new remotely operated vehicle system installed on it's main deck. We were entrusted with the task of identifying a suitable location for the ROV installation and to make an engineering study for the deck modification and assistance for actual implementation. The region demarcated for the installation had some pipe-lines passing underneath and also had some constraints with respect to adding members for strengthening. The entire engineering calculations and drawings were approved by ABS.

- Engineering proposal for ROV Installation
- Finalisation of arrangement based on operation requirements
- Static and dynamic analysis of deck strengthening and ROV foundation
- Technical liaison with fabricators and owners
- Detailed engineering for installation

TAHARA RAW WATER TOWER

The Floating Production Unit (FPU) Tahara was experiencing problem in pumping seawater for onboard use through the pumps located in the Caissons. To overcome this problem we were asked to design a parallel system to pump water when the waterline goes below a certain draft. The solution provided is to be a fixed structure, which will house the pump suctions and also the pumps. It is designed for the survival condition and as a Truss Structure.

- Checking the options for fixing Raw Water Tower
- Finalizing the Raw Water Tower location
- Tower Structure combinations and options
- Structural Analysis
- Installation, Planning and Engineering

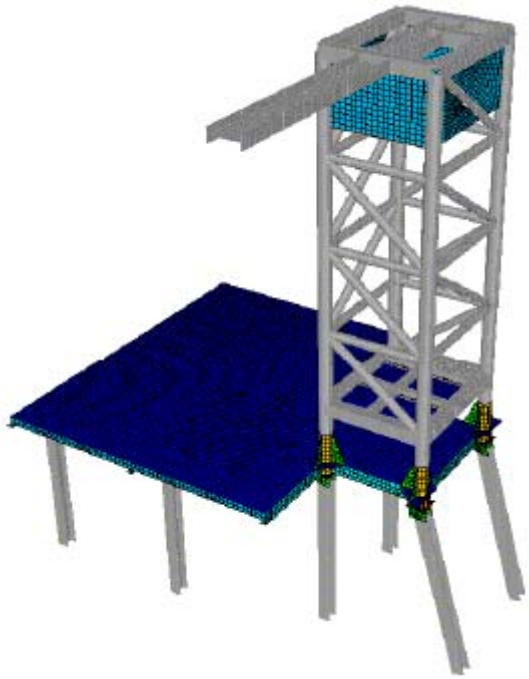
DEEP DRILLER 1

The rig required to be fitted with additional platforms and structures to suit its Operators requirement. BOP platform is a unique design, which can be assembled and removed at location, which holds on to BOP itself.

Conductor tensioned platform is shiftable platform for servicing conductor pipes. Resistor gantry with platform designed to handle the resistor during maintenance. Number and location of Capstan and fairleads optimized to control of rig pull from all direction.

- BOP Platform
- Kingpost support structure for Burner boom
- Conductor tensioner platform
- Resistor handling gantry
- Mooring System revamp

Existing Structure: Excessive corrosion & inadequate strength for New Boom

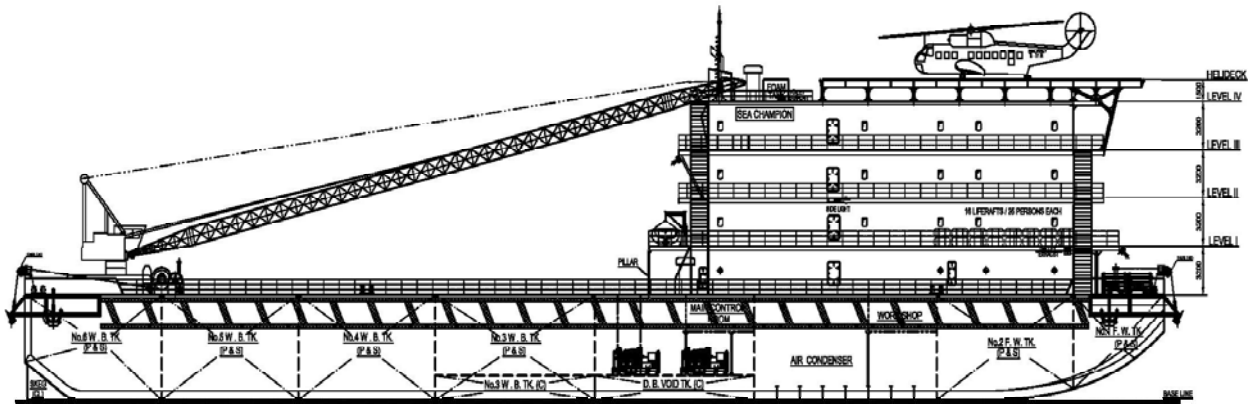


Installation of 60’ Burner Boom on Drill Ship “Sagar Vijay”

The existing King Post for New 60’ Burner Boom was found to be inadequate due to excessive corrosion and insufficient strength. So, for installation of Boom, New Kingposts is designed (for Stbd and Port). Burner Boom & King Post is analyzed for new Environment condition. Deck structure is analyzed for Loads imposed by Burner Boom & King Post.

The Kingpost is designed as Truss structure considering crowded deck with a Platform at the top of Structure and an access ladder. The platform is provided for access to rigging accessories and for locking & unlocking Burner Boom. It also involves the design of stacking arrangement of Boom on King post during Transit condition. Appropriate locking arrangement is provided to stack the boom on King post.

The Stacking of Burner Boom is facilitated by Wire Ropes and Air Winch. The Air Winch is placed in the Kingpost itself to save deck area. The Burner Boom and Kingposts are analyzed for severe Environmental condition of Vertical acceleration of ‘1g’ and lateral acceleration of ‘0.5g’ and wind speed of 97 knots. The Port side structure is placed on existing Roof deck and the deck was strengthened to take the reactive loads produced by the Kingpost.



ACCOMMODATION BARGE

Accommodation barge design to operate in offshore locations with following capabilities:

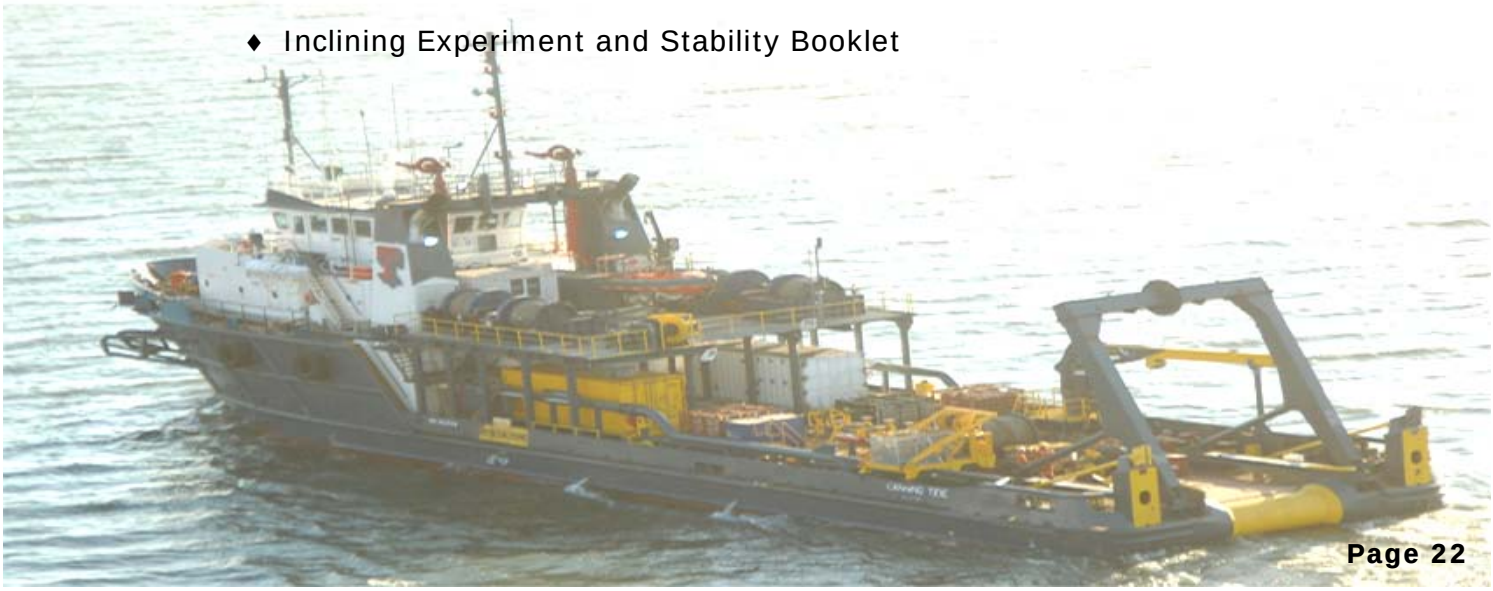
- Compliance with SPS Code and MODU Code and ABS Rules for Accommodation Barges and Hotel Barges 1989
- Classed with ABS
- 250 person accommodation with recreational/physical fitness/hospital facilities
- Design of Helideck to meet CAP 437 requirements (specific)
- 8 Point Mooring System Arrangement
- Deck area 1500 sq m and strength 15 t/sq m.
- Installation of 350 tonne crane
- 3 x 1000 kva gensets + 300 kva emergency power
- FW generation, FO transfer pumps, FW transfer pumps etc.

CANNING TIDE

The “Canning Tide” is an offshore supply vessel owned by “Tidewater Marine LLC” and was modified to a well stimulation vessel.

We provided complete conversion design including:

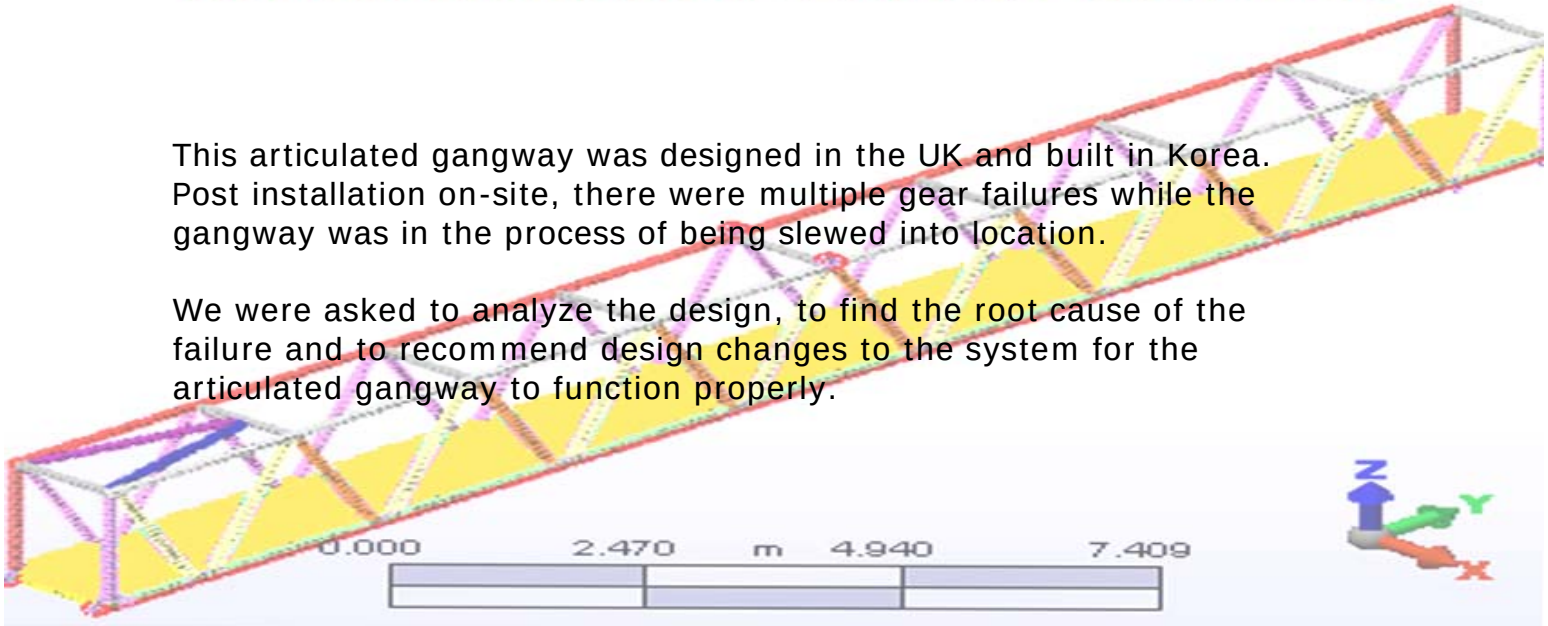
- Four Point Mooring Analysis
- Design of new winch locations and platforms
- Installation of new A-Frame
- Installation of new Crane
- Layout and details of mooring lines including sheaves
- Installation of towing hook
- Modifications to the Fi-Fi System
- Inclining Experiment and Stability Booklet

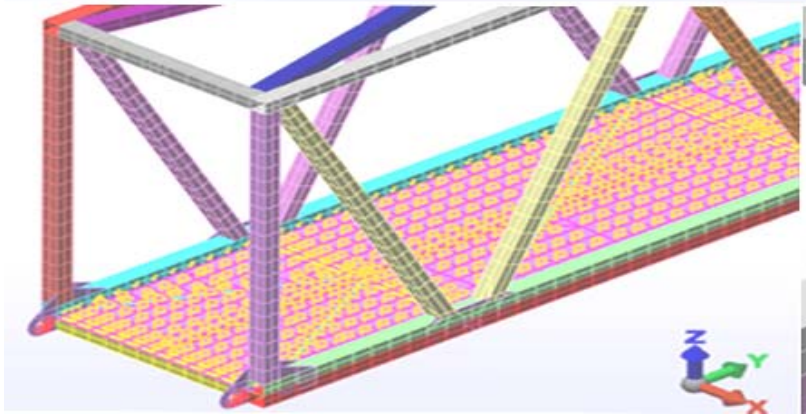


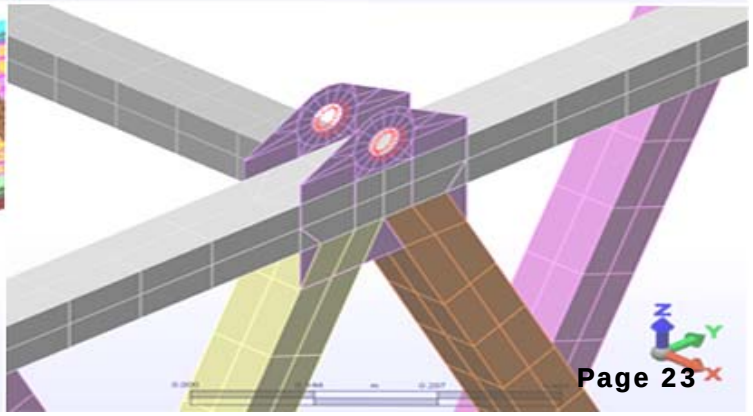
FAILURE ANALYSIS & DESIGN ENHANCEMENT STUDY
BP FPSO ARTICULATED GANGWAY
&
ROBERT H. BOH AFT LANDING PLATFORM

This articulated gangway was designed in the UK and built in Korea. Post installation on-site, there were multiple gear failures while the gangway was in the process of being slewed into location.

We were asked to analyze the design, to find the root cause of the failure and to recommend design changes to the system for the articulated gangway to function properly.







CLIENT LIST

- ABAN OFFSHORE LTD, SINGAPORE
- BERNHARD SCHULTE SHIPMANAGEMENT, SINGAPORE
- BW SHIPPING MANAGERS PTE LTD, SINGAPORE
- CHEM OIL PTE LTD, SINGAPORE
- ETA-MARSOL, DUBAI
- GLOBAL CARRIER BERHAD, MALAYSIA
- GREAT CIRCLE SHIPPING AGENCY LTD., BANGKOK
- HUPSENG OFFSHORE PTE LTD, SINGAPORE
- INTRA OIL SERVICES, MALAYSIA
- LLOYD'S REGISTER ASIA, SINGAPORE
- NEOM MARITIME LTD, SINGAPORE
- PPL SHIPYARD PTE LTD, SINGAPORE
- PREMIUM DRILLING (CAYMAN) PTE LTD, SINGAPORE
- PT SCHLUMBERGER, BALIKPAPAN,, INDONESIA
- SCHLUMBERGER OILFIELD PTE LTD, SINGAPORE
- SINGAPORE TECHNOLOGIES MARINE LTD, SINGAPORE
- SMOE PTE LTD, SINGAPORE
- STALLION OFFSHORE PTE LTD, SINGAPORE
- TITAN OCEAN PTE LTD, SINGAPORE
- UNIVAN SHIPMANAGEMENT LTD, HONG KONG
- ABAN OFFSHORE LTD., INDIA
- ADANI ENTERPRISES LTD., INDIA
- AFCONS LTD., INDIA
- CHOWGULE & CO. LTD., INDIA
- DOLPHIN OFFSHORE LTD., INDIA
- ESSAR CONSTRUCTIONS LTD., INDIA
- GAMMON INDIA LTD., INDIA
- GUJRAT AMBUJA, INDIA
- HINDUSTAN CONSTRUCTIONS LTD., INDIA
- K.C. MARITIME, INDIA
- LARSEN & TOUBRO LTD., INDIA
- ONGC, INDIA
- RELIANCE INDUSTRIES, INDIA
- SOUTH EAST ASIA MARINE ENGG & CONSTRUCTION LTD., INDIA
- THE SHIPPING CORPORATION OF INDIA LTD., INDIA
- VIPUL SHIPYARD, INDIA
- DEMPO ENGINEERING CO, GOA, INDIA
- ATREYA ENGINEERING, GOA, INDIA
- HALLANI SHIPPING, IMUMBAI, INDIA

- EUROPE & USA,
- MDO INC, USA
- NIGEL BURGESS SHIP MANAGEMENT, UK
- TRANSOCEAN INC, USA
- WORKSHIPS BV, NETHERLANDS
- ZODIAC MARITME LTD, UK
- AMERICAN OVERSEAS MARINE – GENERAL DYNAMICS
- AMERICAN SHIP MANAGEMENT
- ANDERSON CONSULTING (NOW KNOWN AS ACCENTURE)
- APL LTD.
- CHASE MANHATTAN BANK, N.A.
- CHIQUITA BRANDS INTERNATIONAL
- CROWLEY LINER SERVICES
- DEL MONTE BANANA CO., INC.
- ENERGY TRANSPORTATION CORPORATION
- GENERAL DYNAMICS – AMSEA
- HANJIN TRANSPORTATION CO., LTD.
- HEALY & BAILLIE
- HORIZON LINES LLC
- HILL, BETTS AND NASH
- INTEROCEAN AMERICAN SHIPPING
- KEYSTONE SHIPPING COMPANY
- KVAERNER PHILADELPHIA SHIPYARD
- MATSON NAVIGATION COMPANY
- MAURITIUS PORTS AUTHORITY
- MILITARY SEALIFT COMMAND
- NOURSE & BOWLES
- OCEAN DUTCHESS, INC.
- PRIORITY RO/RO SERVICES – DIVISION OF ANDERSON TRUCKING
- SEA CONTAINERS, LTD.
- SEALIFT INC.
- SEA & LAND SECURITY, LLC
- SIEMENS ENERGY AND AUTOMATION, INC.
- STERLING CAPITAL PARTNERS
- THE TNT GROUP, INC.
- TOTEM OCEAN AND TRAILER EXPRESS, INC.
- TRANSATLANTIC LINES
- U.S. MARITIME ADMINISTRATION
- U.S. SHIP MANAGEMENT
- U.S. TRADE DEVELOPMENT AGENCY

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