

 **DORMAC**
MARINE & ENGINEERING

Offshore





DORMAC is a dynamic combination of experience and traditional business values with a solid performance history dating back to 1903. The Company provides Owners and Operators with a full spectrum of Engineering services and facilities to the highest international safety and quality standards.

Offshore

The Company has a first class record of offering turnkey solution to its customers 365 days a year.

With the company's offices situated in Cape Town, Saldanha Bay, Durban and Richards Bay in South Africa and Walvis Bay in Namibia Dormac is able to service any offshore related vessel, including MODU's and subsea

construction vessel operating off Africa's East and West Coast oil fields.

Dormac Offshore are also able to set up and execute large projects for our clients at the most convenient location for the specific scope of work.

Offshore Services Include:

- Offshore and Onsite Surveys
- Drawing up of Work Scope Specifications
- Full Project Management and Turnkey Engineering
- Management of Subcontractors and Logistics
- Dry-Dockings and Floating Repairs
- New Builds, Conversions, Modifications and Life Extension Projects
- Travelling/Voyage Repair Teams
- Heavy and Light Machining
- Steel Fabrication and Repairs
- Pipe Fabrication and Repairs, including HP Systems
- Engine Installations and Overhauls
- Mechanical and Rigging Services
- Electrical and Control Systems
- Specialised Coded Welding
- Propulsion and Thruster Overhauls/Rebuilds
- Upgrade and re-builds of Accommodation and living Quarters
- Class Approved Welding Procedures
- Class Approved UWILD Inspections And Dive Surveys
- Underwater Repairs
- Cofferdam Designs and Hull Repairs
- Cleaning, Blasting and Coating, Tanks and Hull
- Crane Rebuilds and Repairs
- Jack-Up Leg and Spud Can Repairs
- Fabrication and Installation of Crane Pedestals and Machinery

Dormac is a DNV Accredited Company

- ISO 9001:2008 Quality Management System
- ISO 14001: 2004 Environmental Management System
- ISO 18001:2007 Health and Safety Management System

ISO 14001 & 18001 Safety, Health & Environment

- Dormac is fully committed to educating its employees to create and maintain a safe working environment. Our professional SHE team ensures that our yards maintain and comply with all relevant SHE standards and are active in the workplace with educational programs, new employee inductions and are earnestly involved at all levels in operational planning.
- All employees regularly attend project specific safety induction courses.
- Personal Protective Equipment (PPE) is issued to each employee and the proper use of this equipment is explained and monitored continuously.
- The SHE management employs an open door policy and welcomes any additions or suggestions to improve Dormac's SHE system.
- Project specific SHE plans are drawn up in consultation with our customer's SHE management to produce a bridging document encompassing both Client's and Dormac's project specific SHE requirements.
- SHE issues are recorded at all levels in the company, from the shop floor to the boardroom, and all employees have full access to management should any concerns be raised.
- Dormac continues to empower their workforce in a positive manner and instil a strong culture of personal safety, responsibility and respect for the environment

ISO 9001 Quality Management

- DORMAC is able to fabricate to a broad range of standards including ASME, AWS, IACS and API, assuring the customer of a quality fabrication. Dormac makes regular use of third party inspection authorities and works closely with the Classification Society's Surveyor to ensure the relevant rules and regulations are adhered to.
- Dormac's policy is to remain at the forefront of quality control and production by using the latest technology and practices available.



Major Projects Executed

Semi-Submersible Rig - SPS

Major refurbishment and up-grade in Saldanha Bay. Project workscope included:

- SPS activities
- 154 tons of steelwork repairs and modifications
- Over 400 m's of new pipe work
- Cleaning & coating 8500 m² of machinery spaces
- Ranging for survey of all 8 anchor chains & anchors



Semi-Submersible Rig - Modification

This semi-submersible drilling rig was refitted and upgraded in Cape Town. It was docked onto a heavy lift vessel, enabling access to pontoons and thrusters. Project workscope included:

- Over 390m of 3" #160 SS pipe renewals
- 100m of 5" cement lines
- Renewal of all the HP Demco valves
- Steelwork modifications and overhaul of the main fairleaders





Jack-up Rigs

The refurbishment program of two Jack-up Rigs consecutively in Saldanha Bay. Project workscope included:

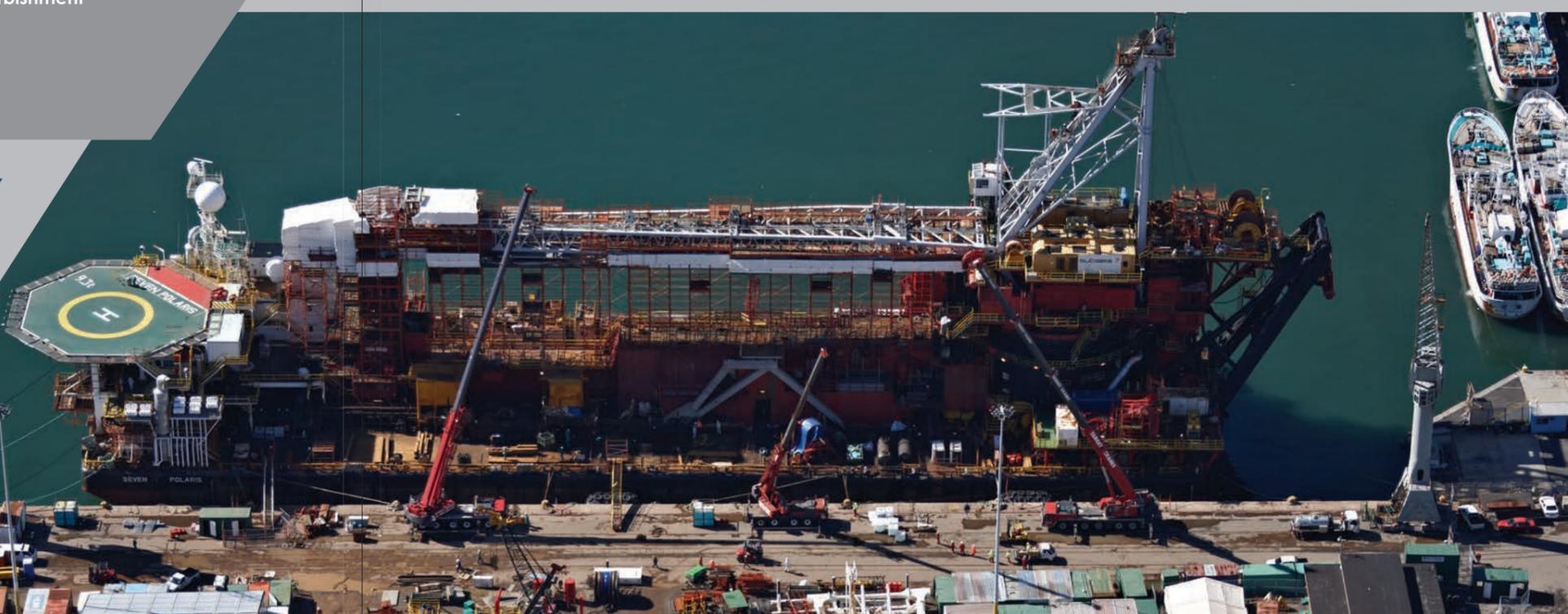
- Rejuvenation of their pre-load and drill water tanks
- Significant steel replacements were also carried out in the ballast tanks (180 tons) and on all three of the leg K-Braces
- Extensive piping and exhaust system renewals were undertaken
- Grit blasting and coating of the ballast tanks, the cantilever substructure, the entire external hull, helideck and main decks
- Accommodation Refurbishment



Pipe-Lay Crane Barge

Extensive repairs and modifications during a 30 year SPS dry docking. Project workscope included:

- Fabrication & Repair of 150 tons of steelwork
- 3500m of piping systems
- The entire Main & Auxiliary engines exhaust insulation and cladding renewal
- Complete overhaul in our workshops of 4 x 40ton RR azimuth retractable thrusters
- Complete overhaul in our workshops of 2 x bow & stern thrusters
- Overhaul of Caterpillar generator engines
- Overhaul of 4 x Ulstein Bergen thrusters engines.
- Overhaul of Wartsila Generators
- Overhaul of GM generator engines
- Overhaul Volvo hydraulic power pack engines
- Hydraulic repairs of the main 1600ton Clyde crane winches
- Hydraulic repairs to 2 x Manitowoc crawler cranes
- Complete hydraulic and steel refurbishment of 2 x Rov Launch & Recovery "A" frames
- Hydraulic repairs to thruster steering motors and numerous other hydraulics system upgrades and modifications
- Electrical repairs to over 80 electric motors of various sizes, main alternators, bow & stern thruster motors (1,400KW)
- Overhaul of switchboards and refurbishment of the main crane boom flood lighting system
- The installation of a new 120 ton winch on the main deck with new foundations and under-deck stiffening, including the hook-up of the control systems, power supply and hydraulics
- Hull fenders were fitted with new wood





Seismic and Research Vessels

SPS dry docking on special dock blocks and repair work on seismic vessels in Cape Town. Project workscope included:

- Steel modifications and repairs
- Pipe work
- Complete blasting and coating of the hull
- Hydraulic modifications and installations
- Electrical work
- Thrusters change-out and maintenance
- Load testing of various handling equipment

Accommodation Crane Barge

Dry Docking for 1st SPS. Project workscope included:

- 60% of the hull blasted and fully re-coated
- Significant sea water piping systems were renewed
- 2 X thruster overhauls
- New steel deck extension





Drillship

Vessel dry docked in Cape Town to perform her 5 yearly SPS and modifications. Project workscope included:

- Routine dry docking works
- Fabrication and installation of a completely new tensioner system with new sheaves, accumulator bottles and SS pipe systems
- The entire Koomey unit was renewed
- Over 135m of 3" SS piping, and renewal of all the Demco valves
- Approximately 50 tons of steelwork modifications

FSO Vessel

FSO performing her first SPS (10yr) dry docking in Cape Town. Project workscope included:

- 100% hull blasting and recoating program covering 18000m²
- Installation and commissioning of a diesel generator module (130 tons) to increase the power supply capacity on board
- Approx 80 tons of shell repairs
- High spec Cryogenic pipe work in SS and carbon steel





Flexi Pipe-Lay Construction Vessel - SPS

Project workscope included:

- Fabrication and installation of a 30 man accommodation barge
- Full underwater maintenance works
- Overhaul of the 400t Kenz crane and VLS
- On a separate occasion we handled the design, construction and fitment of a purpose built cofferdam to carry out moon pool repairs whilst afloat

Flexi Pipe-Lay Construction Vessels - Upgrades

Project workscope included:

- Vessel was docked on Dormacs high dock blocks for her 1st intermediate docking
- The vessel was docked on the Dormac high blocks for her 2nd docking
- The removal and overhaul of a 22m tail shaft
- Thruster overhauls under guidance of OEM Technician
- Crane overhauls under guidance of OEM Technician
- The removal and complete strip down and refurbishment of the thrusters in our machine shop and rebuild to original manufacturer's satisfaction
- Hull coatings
- Pipe work and general repairs and maintenance activities



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