MAINTENANCE SOLUTIONS

MULTIDISCIPLINARY AND SPECIALISED MAINTENANCE SOLUTIONS FOR ALL OFFSHORE FACILITIES

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MASTERING MAINTENANCE OF OFFSHORE FACILITIES

RAMBOLL OIL & GAS HAS MORE THAN 20 YEARS OF EXPERIENCE WITH MAINTENANCE IN THE OIL & GAS INDUSTRY

The right maintenance strategy and service is of great importance in the offshore industry to ensure that equipment is fully operational and to avoid costly shutdowns.

Ramboll is specialised in maintenance systems for electrical, mechanical and rotating equipment. Our practical know-how has positioned us as a preferred partner in the offshore industry. We have comprehensive knowledge of the various branches and disciplines in the offshore industry and offer multidisciplinary engineering services.

Maintenance across disciplines and geography
With more than 20 years of experience in the field, Ramboll is able to provide highly specialised consultancy services to meet clients’ needs at any time. We are specialised in preparation of maintenance procedures and planning of preventive maintenance of offshore facilities.

We are closely affiliated with the Danish oil and gas industry in the North Sea, but our efficient maintenance systems are also utilised in other industries such as wind energy, refineries and petrochemical. Furthermore, we also carry out numerous maintenance projects in Qatar.

Provision of manpower and knowledge
To find the right solutions to a specific maintenance issue is a close partnership with the operator and our maintenance specialists.

We provide manpower and specialised knowledge for any maintenance project during engineering, construction and commissioning phases.

Development of maintenance procedures
Our ongoing maintenance procedures for rotating equipment such as gas turbines, gas compressors, water injection pumps and generators include:

• Maintenance procedures in OMS or SAP, identification and creation of stock numbers for necessary spare parts
• Ongoing documentation updates for clients’ maintenance procedures in connection with replacement, modification and optimisation of production facilities
• Engineering assistance within maintenance, project control and maintenance optimisation

Major rotating equipment
Our professional and dedicated staff has many years of experience with maintenance of major rotating equipment.

We have significant experience within:

• Development of maintenance procedures and identification of necessary spare parts on offshore facilities
• Establishment and ongoing maintenance of KIT systems to ensure that the needed spare parts and tools are available when needed in case of shut downs
• Handling of documentation of the KIT systems in White Books, providing the operator with all necessary details about the equipment
• Ongoing service and inspections of KIT systems, including ordering, replacement and updates
• Specifications of gas compressors, including design, fabrication, installation and production start-up
• Specifications for major rotating equipment installed on FPSOs

Maintenance on Al Shaheen field
One of our most comprehensive projects to date is the full-scale maintenance work on 14 platforms in the Al Shaheen field off the coast of Qatar, operated by Maersk Oil.

We have also played an important role in facilitating the construction and installation of new platforms in the field.

Our responsibilities include all documentation reviews and preparation of maintenance procedures for most equipment. This includes disciplines such as electrical, instrumentation, mechanical, piping, rotating equipment and safety requirements.

History of our maintenance services
On 1 January 2010 Ramboll Oil & Gas acquired QA Consulting, a company specialised in maintenance services. The company, located in Esbjerg, had existed since 1986 and employed some 30 specialised engineers and technicians at the time of acquisition.

With the acquisition, Ramboll significantly increased our competencies within maintenance and rotating equipment.

About Ramboll
Ramboll is a leading engineering, design and consultancy company founded in Denmark in 1945. Today, we employ some 10,000 experts with a strong presence in Northern Europe, Russia, India and the Middle East. With more than 200 offices in 19 countries, we emphasise local experience combined with a global knowledge base. We constantly strive to achieve rigorous solutions that make a genuine difference to our clients, the end-users and society.

The business unit Ramboll Oil & Gas provides highly specialised engineering consultancy services to the worldwide oil and gas industry. We have worked in the industry since the 1970s, and employ close to 1000 dedicated oil and gas specialists.

More information and contact
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SELECTED REFERENCES

DUC platforms - Danish North Sea
Since the early 1990s we have been heavily involved in the creation of maintenance procedures and documentation updates for all larger DUC platforms in the Danish North Sea.

FPSO Maersk Nyguema Yin
We were heavily involved in the successful conversion of Ellen, a Maersk Oil crude tanker, to the FPSO Nyguema Yin.

DONG Energy platforms - Danish North Sea
For the Siri platform, we were responsible for full scope pressure vessel inspections. The work involved ongoing inspection of topsides pressure tanks, including management of spare parts information and materials as well as quality control and manpower. We also performed complete and ongoing maintenance processing and supply documentation for the Nin East platform.

LEFT
Maintenance of gas compressors

RIGHT
Provision of manpower and inspection of equipment for offshore installations.

TRIANGLE
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