

www.storktechnicalservices.com



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Stork Technical Services

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An unrivalled support partner for the global oil and gas industry.



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One partner for life

Stork Technical Services is the leading provider of integrated support services to the global oil and gas industry. Delivering unrivalled asset integrity assurance, we help to streamline the processes that are fundamental to effective production and safe operations. And by supporting Operators to extend the productive life of assets, we help them to maximise the recovery of oil and gas reserves.

A 5% improvement in recovery from existing oil and gas fields would deliver an additional 300–600 billion barrels of oil globally, according to a report issued by the Energy Biosciences Institute. For Operators, asset life extension is a key component in maximising extraction rates from existing fields.

Our unique combination of skills, experience and capabilities – plus an approach based on thinking and doing – is underpinned by a proven portfolio of assess, inspect and repair services. This not only offers our clients major cost benefits, it enables us to provide support throughout the asset lifecycle. We are the one partner for life.

Stork Technical Services

Integrated assess, inspect and repair services throughout the asset lifecycle, from subsea and topside.

● Hook-up and commissioning

● Operations, maintenance and modifications

● Shutdowns and turnarounds

● Relocations

● Decommissioning

Africa | Americas | Asia Pacific | Caspian | Europe | Middle East

Stork Technical Services is a world-class provider of asset integrity management services. Supporting the oil and gas, power and chemical sectors, we partner with our clients to support them in reducing risk, assuring safety and improving the performance of their assets. Stork has experienced rapid growth in the past decade, which has culminated in a global community of more than 14,500 employees and worldwide operations.

A number of strategic acquisitions have powered this growth in recent years, including the 2011 acquisition of RBG. Operating in the oil and gas sector for over 35 years, RBG had established an unrivalled track record for delivering complex projects safely and to the highest quality standards.

By combining the expertise of both companies, we have brought together an integrated service portfolio that includes a unique range of assess, inspect and repair services. The result is a new service offering – a new benchmark in asset integrity assurance.

Today, through the provision of assess, inspect and repair services, we partner with our clients and support them to:

- maximise the value of their production assets
- deliver world-class safety performance
- develop and support asset inspection and maintenance programmes
- integrate advanced inspection services throughout the asset lifecycle
- minimise downtime through integrated repair and maintenance activity

As a result, working with Operators worldwide – from the UK and Europe to Africa, the Americas, Asia Pacific, Caspian and Middle East – we help to deliver:

- asset integrity assurance
- asset lifespan extension
- increased operating efficiency
- improved HSEQ performance

And, of course, we focus on adding value throughout the asset lifecycle with proven service delivery in the following key phases:

- hook-up and commissioning
- operations, maintenance and modifications
- shutdowns and turnarounds
- relocations
- decommissioning

Our commitment to HSEQ excellence

“HSEQ excellence is at the heart of everything we do. We have a robust HSEQ culture that demands uniform application of outstanding performance and behaviours across all areas of our business. We allocate an HSEQ advisor to each of our projects and contracts. The advisor’s remit is to support and enable outstanding HSEQ performance at all times through collaboration and partnering with our customers.”

Mike Mann

Senior Vice President – Global HSSEQ
Stork Technical Services

Introducing REACH

As a leading support partner, we are committed to delivering world-class HSEQ performance across our global operations.

Stork has adopted REACH to help improve our safety performance and engagement on HSEQ. REACH was originally developed and launched in 2009 by RBG, the company acquired by Stork Technical Services in 2011, where it had a major impact on HSEQ performance evidenced by over 70% reduction in the UK lost time incident frequency rate, and over 60% globally, from 2009 to 2011.

By placing safety unequivocally as our number one priority, REACH helps us to consistently deliver projects to the highest HSEQ standards without compromising quality. It enables us to improve HSEQ performance through:

- management leadership
- empowering everyone
- improving performance
- sharing information
- recognising improvement
- sustaining improvement

In 2011, REACH was awarded the Safety Leadership Award by Subsea UK and the ‘Outstanding HSE project’ accolade at the 2011 American Chamber of Commerce of Trinidad & Tobago Excellence in HSE Awards.

How REACH works

Management leadership

REACH is owned by our people and led by the REACH Steering Group. Meeting on a monthly basis, this forum is an opportunity for:

- analysing performance
- identifying trends and mitigating against recurring issues
- sharing best practice
- allocating REACH recognition awards
- comparing performance across all of our client contracts

Empowering everyone

REACH sets out mandatory minimum HSEQ standards. Our employees are responsible for maintaining compliance to these rules. Safety is a great leveller. Each and every one of us has the authority to challenge unsafe behaviour and actions, and to respond positively to interventions.

We also have a team of voluntary Safety Representatives who meet every month to discuss a range of topical safety issues. Any employee can take part in this scheme.

Improving performance

We improve performance through sharing common goals. We track our performance through:

- monthly reporting and analysis of rolling statistics
- benchmarking against industry standards
- managing a continuous improvement system that allocates SMART objectives to ensure ongoing development

We influence our performance by rolling out topical campaigns that relate directly to issues identified in our monthly performance reviews.

Sharing information

Teamwork depends upon sharing information. We do this by:

- communicating our HSEQ strategy
- sharing monthly performance reviews with employees and clients – we are the only contractor in our industry to communicate our performance externally
- circulating lessons learned with our global employee community
- issuing industry and Stork safety alerts
- regular training events and promotional campaigns

Formal recognition commends those who demonstrate outstanding safety performance, but also presents an opportunity to share examples of best practice with our colleagues, clients and peers.

For more information on REACH visit our website:

www.storktechnicalservices.com/reach

Hook-up and commissioning

We are proud to offer a full portfolio of services that support clients in managing best-practice construction and HUC projects. Our involvement extends from the design stage, supporting clients from procurement through to construction at the fabrication yard, pre-hook-up activity (including baseline surveys) to offshore hook-up and final commissioning.

Initially, our expert team of quality assurance/quality control inspectors will ensure the material used in the construction phase meets the required industry standards and project specifications. We then review the various structural elements and agree on how we can best support the HUC.

Using specialist inspection techniques, we determine the integrity of the structure with a view to ensuring asset longevity and life extension.

From works carried over from the fabrication yard to activities that were not initially identified, we also deliver installation support, maintenance services and special access solutions.

Our track record of innovation

We have introduced a range of innovative technologies to our HUC product portfolio:

- Remote inspection with high resolution pan-and-tilt cameras negates the need for vessel entry and also allows inspection through small diameter entry points up to a distance of 200m.
- To tackle the significant problems associated with leak paths and corrosion under insulation, we introduced a lightweight, fully-sealed, non-metallic insulation cladding which provides a weatherproof coating to any pipe or vessel arrangement. The traditional use of metal cladding in the offshore sector often resulted in unscheduled shutdowns for maintenance.
- Our chemical cleaning service ensures all pipework is debris free prior to commissioning so there are no restrictions that could cause costly unscheduled downtime.
- Using non-intrusive corrosion monitoring solutions – with the option of wireless power and data transmission – we implement an advanced monitoring strategy utilising industry-leading technologies combined with our skilled service team to deliver a comprehensive turnkey solution.

How we add value for you

We have introduced a range of innovative technologies to our HUC product portfolio:

- Our multi-disciplinary teams deliver efficiency while reducing personnel onboard.
- Our range of integrated services ensures we can react quickly to ad hoc requirements.
- Our extensive experience means that we will always manage risk appropriately and deliver excellent HSEQ performance in a changing environment.
- By providing one client focal point to coordinate the delivery of integrated services, we increase efficiency by reducing the number of interfaces required.

Visit our website to view case studies and datasheets:

www.storktechnicalservices.com

“ I would like to thank the RBG team (now Stork Technical Services) for its excellent assistance throughout the leak testing campaign to date. This is a high profile workscope...every request has been dealt with instantly allowing each leak test to be completed in a safe and timely manner. ”

Ryan Scott
BEP Start-Up Engineer
Wood Group PSN



“ BP’s compliance and audit team scored all of their 2010 audited suppliers against a 20 point criteria. Your team’s score proved to be the most compliant and we thank you for your transparency and responsiveness during the audit process. ”

Zaur Ahmadov
Compliance & Audit Manager, BP

Operations, maintenance and modifications

Focused on building long-term relationships with our customers, we deliver best-in-class project management and end-to-end maintenance solutions which support our clients in delivering improved HSEQ performance and asset operability.

With over 35 years experience in the oil and gas industry, our capability includes a range of core and specialist services, access solutions and repair services. Traditionally, asset integrity was delivered to Operators through several contractors, but today with our significantly enhanced service portfolio we can ensure asset integrity assurance.

Our full service offering now covers:

- risk-based inspection programmes
- annual inspection programmes
- gathering and reporting inspection data
- planning and design of remedial worksopes
- delivery of repair and maintenance activity
- complete management and execution of modification projects
- construction execution and management

Strategic planning is at the heart of this offering. Maintenance and repairs are delivered in response to integrity data gathered, and inspection programmes are reviewed in line with information collated at the assessment stage.

Our track record of innovation

We are committed to delivering innovative, efficient and cost-effective services to our clients. These include:

- Ultra High Pressure (UHP) water cold cutting is an innovative technique that uses a mixture of water and a cutting medium to cut through some of the toughest materials.
- Our hot bolt clamping system allows corroded bolts to be removed from four bolt flanged joints and replaced without the need for a costly shutdown. The four bolt clamps replicate the clamping force induced by the existing bolts and means activity can be safely carried out in-service with no disruption to the standard line pressure.
- Our fleet of specialist intervention craft and team of multi-disciplined divers deliver integrated air and nitrox diving services.
- When traditional survey methods are unable to access areas of interest, or a more local trend analysis is required, we have developed hardware and software solutions fitted to subsea installations to continuously monitor the performance of the cathodic protection system.

How we add value for you

- We bring together an integrated and unrivalled portfolio of services, which are delivered through one client focal point.
- By providing one client focal point to coordinate the delivery of integrated services, we increase efficiency by reducing the number of interfaces required.
- Our project teams are competent in a variety of multi-skilled core crew activities.
- Our extensive range of plant and equipment ensures we can react quickly to ad hoc requirements.
- Our safety record is unrivalled and matched by our quality service delivery.

Visit our website to view case studies and datasheets:
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Shutdowns and turnarounds

With experience of carrying out more than 2,500 shutdowns and turnarounds in the oil and gas industry, we understand the commercial pressures, safety risks and non-routine workscope hazards that turnarounds present for our customers.

One week of shutdown every two years represents around 1% of platform production capacity. We recognise the impact this has on our customers and we address this by reducing downtime through strategic project/resource planning and deploying multi-disciplinary teams and innovative technologies. Our capability includes routine cleaning and re-coating to full process plan, shutdown, destruct and recommissioning.

Our track record of innovation

Application of technical innovations can significantly reduce downtime. We have a range of innovative practices and equipment including:

- An advanced online desander that offers field proven separator solids management, from thermographic determination of sand accumulation through to clean sand discharge to sea, with no deferred production.
- Our innovative sandwash system cleans sand to less than 1% oil-on-sand content for safe overboard disposal.
- Our flange face formers repair damaged flanges to the required standards providing an increased lifespan and reduction in costs for replacement parts.
- Our vacuum system provides a safe and effective waste transfer solution for the uplift and transportation of sand/sludge from vessels and tanks.
- As part of our inspection capability, we utilise 3D digital image processing for rapid sizing of pitting type defects in pressure vessels.

How we add value for you

- Our multi-skilled teams deliver a complete shutdown and turnaround support service.
- We capture all turnaround metrics, thereby reducing the preparation time and cost outlay for future projects.
- We have developed an integrated approach to delivering smart turnarounds, assuring maximum predictability on cost, planning, safety and quality.
- We manage potential conflicts between safety, non-routine tasks and high manning levels.
- Our experience ensures we can deliver in tight operating windows without compromising safety.
- Our multi-disciplinary teams deliver efficiency while reducing personnel onboard.
- Through the best use of technology we increase efficiency and reduce downtime.
- By providing one client focal point to coordinate the delivery of integrated services, we increase efficiency by reducing the number of interfaces required.

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“ I would like to take this opportunity to thank you for your assistance over the past 14 days or so. This shutdown came with very little notice but all of the planned workscopes were successfully and safely completed. This is a result of your team’s commitment, dedication, professionalism and excellent safety behaviour. It is an amazing accomplishment. ”

Andy Brewin
Installation Manager, Petrofac





“ Stork Technical Services has proven experience with projects of this kind in the (petro)chemical industry. And – also important – they were able to offer a favourable price thanks to their experience. We’ve completed a major job together in just eight months. ”

Gert Jan de Geus
COO, OCI Nitrogen

Relocations

Through the delivery of high profile relocation projects for the likes of Shell and DSM, Stork Technical Services has over 20 years experience in managing the complete relocation of onshore production facilities. For each project, our key drivers are to maintain installation integrity throughout the full process while delivering first-class HSEQ performance at all times.

Customers around the world benefit from utilising our experience and expertise to manage the challenges of maintaining a licence to operate while sustaining consistent, reliable and safe production. We are experts in understanding how plants operate. By taking a pragmatic approach, we are able to manage the complete relocation process – from dismantling through to transportation, re-assembling and commissioning.

By aligning to our client’s objectives – whether it be to relocate for regulatory or commercial reasons – we determine the safest, most efficient and value-added means of designing and delivering relocations.

Our track record of innovation

World-class corporations seeking relocation services benefit from our PRINCE™ system, which offers an integrated workflow and business process management system for the controlled execution of multi-disciplinary projects and modifications.

PRINCE disciplines include:

- Piping (prefab and field)
- Mechanical
- Non-destructive examinations
- Post weld heat treatment
- Electrical and instrumentation
- Steel structures
- Painting, insulation and scaffolding

How we add value for you

- Our multi-skilled teams can manage the complete relocation process from start to finish, maintaining installation integrity.
- By aligning with your objectives we determine the most efficient and effective means of delivering relocations.
- Our plant audits provide valuable insights into technical feasibility and completion times.
- By providing one client focal point to coordinate the delivery of integrated services, we increase efficiency by reducing the number of interfaces required and commit to a set timeframe and fixed budget.

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Decommissioning

Oil & Gas UK reports that in the UKCS decommissioning projects are estimated to cost Operators more than £27billion over the next 40 years.

In the past decade, we have supported a range of high profile decommissioning projects in the UKCS and also across mainland Europe. As a result, we have established an unrivalled track record and an outstanding safety performance in decommissioning that is unique in our marketplace.

With our experience and a full support capability, we are now able to partner with Operators throughout the decommissioning lifecycle from preparing to cease production, to process and utilities separation, disconnection, removal and specialist cleaning.

Our track record of innovation

We are pioneering best practice in decommissioning and are at the cutting-edge of this emerging specialism. Examples of recent innovations include:

- Ultra High Pressure (UHP) water cold cutting is an innovative technique that uses a mixture of water and a cutting medium to cut through some of the toughest materials.
- Our clam shell cutting technology enables cold work pipe cutting on most sizes, schedules or material of cylindrical pipe. The machines are portable, which means that multi-disciplined rope access technicians can deploy the technology in areas that would traditionally require scaffolding.
- Our accredited asbestos operatives can safely survey and remove asbestos containing materials in accordance with the Control of Asbestos Regulations 2006. We have a 100% safety record through all asbestos projects.
- We have introduced a diamond wire cutting system for cutting underwater structures. Using a specially designed diamond wire blade, this hydraulically operated tool – controlled from the surface via an umbilical link or by work class ROV – is not limited by water depth, and can help ensure the safe and efficient removal of subsea pipelines and structures.
- We have developed and applied specific condition assessment systems prior to cutting, lifting or moving items to be decommissioned.
- We also have the capability to inspect, relocate and recommission sections of plant or vessels, enabling clients to realise increased value from this process.

How we add value for you

- Our multi-disciplinary teams have the skills to deliver in an ever-changing environment.
- We help to drive significant cost savings while maintaining outstanding HSEQ performance.
- Our guidance on cleanliness approach can help to minimise offshore cleaning manhours.
- We offer a range of additional destruct services to support safe and effective removal.
- By providing one client focal point to coordinate the delivery of integrated services, we increase efficiency by reducing the number of interfaces required.

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“ Aker Solutions would like to personally thank your team for the support and service provided throughout the last five months, during the preparation of the AH001 for tow away. Throughout the lengthy workscope, the crew exhibited expertise, support and enthusiasm, which in turn resulted in completion of the original cleaning scope, plus additional scopes, all within the project deadline. ”

Steve Shrive
VP Operations UK, Aker Solutions



An unrivalled service offering

We pride ourselves on establishing long-term relationships with our clients that are founded upon trust and respect. Our clients trust us to deliver innovative solutions that will drive value while improving HSEQ performance and efficiency. They respect the skills and expertise that we bring to our work, thinking and doing in a way that enables Operators to maximise the operability and integrity of their assets.

Some of our clients have worked with us for more than 30 years. We understand what their objectives are, the common challenges that they are faced with, their working methods and the operating systems on their assets. The value of these relationships is central to the delivery of the services that directly impact our clients' long-term HSEQ performance, asset operability and integrity. Integrated services are provided by one client focal point, ensuring seamless delivery and one line of communication between our clients and Stork.

In addition to the services detailed on the adjacent listing, Stork Technical Services Energy Resourcing team are dedicated recruitment specialists, matching candidates and clients across the energy industry, in the UK and globally. Areas include drilling, construction, well services, engineering and technical. Visit our website to find out more.

Visit our website to view our service portfolio for the chemical and power sectors: www.storktechnicalservices.com

Support services for the oil and gas industry

Assess

Bolt integrity assessments

Cathodic protection (CP) design and life extension assessments

Condition data management and trending

Corrosion and sand monitoring

Corrosion engineering and failure assessments

Corrosion monitoring analysis and design

Flange integrity and flange management

Fitness for purpose assessments

Fitness for service assessments

Hydrocarbon release assessments

ICCP solutions

Inspection and corrosion work planning

Inspection engineering

Integrity gap analysis and audit

Integrity, inspection and corrosion management

Integrity management

Materials selection assessments

Risk-based inspection (RBI)

Risk-based subsea inspection

Risk-based topside inspection

Training

Vendor expediting

Vibration induced fatigue assessments

Inspect

Advanced non-destructive testing

Asbestos survey

Conventional NDT

Electrical ex surveys

Flange integrity inspection

Pipeline engineering

Third-party vendor inspection

Training

Repair, construct and destruct

Asbestos removal

Asset maintenance

Asset protection

Corrosion engineering

Electrical installation/upgrades and equipment

Fireproofing

Flange management

Heat treatment

HVACR

Inspection, repair and maintenance

Insulation

Leak sealing

Marine cathodic protection

Online desanding

On-site machining and bolting services

Painting (including specialist coatings)

Project management

Process equipment

Pump and valve services

Relocations

Rotating equipment maintenance

Specialist cleaning

Structural repair and maintenance

Subsea repair and maintenance

Surface preparation

Access solutions

Diving

Rope Access

Scaffolding