

TECHNICAL SPECIFICATION

Cathodic Protection Solutions

Stork provide a complete package of cathodic protection (CP) services and technology. The advanced design process aligned with our quality equipment, allows extremely accurate control of the system, eliminating corrosion, reducing costs and ultimately protecting your investment.

Our services combine knowledge, expertise and experience to provide optimum solutions to assure the external corrosion protection of assets and infrastructure.

Among a range of applications are:

- Life extension of offshore structures and pipelines
- Bespoke designs for FPSO
- Retrofit systems
- Monitoring of CP status and performance
- High accuracy electric field sensors
- CP system verification
- CP modelling

By offering engineering, we are able to carry out analysis, auditing, troubleshooting, design and modelling to fulfill the most complex and demanding jobs worldwide, where a thorough understanding of cathodic protection is required.

Our areas of expertise link to form a complete CP process from design, through installation and commissioning to survey and condition monitoring.

Our expertise and knowledge extends across the following areas: subsea facilities; pipelines; semi-sub; jack-ups; FPSOs, FSUs; marine/ports and harbors; extended field solutions; maintenance of CP system, Integrity; merchant; submarines and naval vessels.



Cathodic protection survey services

With over 20 years' history and operational experience, we have surveyed in excess of 70,000 km of subsea pipeline, and more than 1,000 offshore platforms. Our teams of dedicated engineers use hardware, software and techniques developed in-house to provide our customers with reliable accurate and repeatable corrosion data.

With a NACE-qualified resource pool and equipment based around the world, we can handle short notice mobilisations and long-term projects with consistent results.

Data is processed by our permanent dedicated reporting team allowing for prompt turnaround of reports and consistency year on year; we do not simply reproduce last year's report.

Method

- SubCAPSS
- CP trace
- SubContact
- Inshore trailing wire
- CIPS and DCVG
- Multiple techniques for cathodic potential, contact and electric field gradient surveys
- Anode remaining life and current density calculations
- Offshore and onshore surveys
- Platform and riser
- Survey equipment failure rate is virtually negligible
- Full reporting and analysis of data, historical trending

Technology solutions include: pipeline and flowline wall thickness mapping; precision scanning (5x5-1x1 mm); flexible riser inspection; ToFD weld inspection; subsea jacket and structures; internal inspection of un-piggable lines, diver and ROV-deployable combined.

Integrated project management

Stork has extensive experience of delivering both large and smaller-scale inspection projects, and our aim is always to exceed client expectations.

Each project is subject to rigorous quality procedures to ensure effective control, planning and efficiency as part of our drive for operational excellence. Scopes of work have included all onshore and offshore pressure system facilities, structures and pipelines, among them several projects spanning international borders. Others have focussed on solving particular issues, such as Hydrogen-Induced Cracking (HIC) in welds, corrosion under pipe supports, and bolt fatigue cracking.

We deliver technical excellence through: In-service inspection management; construction and fabrication inspection; ISO 17020 Type A and C certified; PCN and ASNT level certification; BINDT, IRATA, IMarEST, DNV, Lloyd's Association; International skilled labour pool; and in-house research and development.