CATHODIC PROTECTION
BURIED PIPELINES

CRITICAL
Buried pipelines are a critical component of the infrastructure required to provide energy security, and drive economic prosperity in the 21st century. Owners, operators and regulators are extremely conscious of the negative environmental and societal impact that a failure can cause, and for this reason provisions to ensure asset integrity are extensive.

Included in the toolbox of measures used to maintain asset integrity is cathodic protection, a dynamic electrochemical technique that arrests corrosion. Supplemental to barrier coatings, cathodic protection provides efficient and effective corrosion prevention, minimizing the risk of failure and extending asset service life indefinitely.

DEPENDABLE
Corrosion Service specializes in cathodic protection corrosion control, combining research with engineering experience gathered over many decades working in partnership with industry throughout the world. Cathodic protection systems mitigate corrosion away from bare metallic surfaces through the incorporation of an external anode, which is made electrically continuous with the target structure. The anode is typically more electrochemically active than the surface of the structure, which has the effect of polarizing the surface and preventing corrosion. In some situations, an external source of current may be required to drive the system and maintain the desired level of protection. These systems have a large sphere of influence, protecting many kilometers of pipeline.

BENEFITS
- Prevent corrosion and reduce the risk of mechanical failure in corrosive environments.
- Extend the operating life of existing pipelines by maintaining asset integrity.
- Reduce the need for expensive replacement or decommissioning by managing the condition of buried assets.

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cp-design@corrosionservice.com
ENGINEERING

All pipeline systems are different, and whether the project is new build, rehabilitation, or routine maintenance, our talented team of NACE certified industry professionals are empowered to understand the unique characteristics of every enquiry.

OUR SERVICES

- Test post surveys.
- Soil resistivity analysis.
- Close Interval Surveys (CIS)
- Direct Current Voltage Gradient (DCVG) Surveys
- External Corrosion Direct Assessment (ECDA)
- Risk of corrosion assessment.
- Existing system review and assessment.
- Cathodic protection specific surveys including data collection.
- Field data analysis.
- Cathodic Protection system feasibility studies.
- Specification preparation.
- Conceptual and detailed cathodic protection system design.
- System drafting services.
- Materials supply.
- Turnkey installation and construction services.
- Corrosion training services.
- Commissioning services.
- Remote monitoring services

MATERIALS

Our materials supply team is capable of providing a full-range of cathodic protection materials and equipment both manufactured in-house and sourced from partner suppliers. Our dedicated supply chain team is based in Toronto alongside our material distribution hub, which is capable of delivering materials throughout the world on short notice.

SAFETY

Safety is a fundamental company value that governs everything that we do. Our organization is firmly committed to protecting the health and safety of our Team Members, Customers, Contractors and the General Public. Working together on a foundation of commitment and enthusiasm, while integrating safety into all facets of our operations, we constantly strive to achieve a workplace free of hazards, injury and illness.

QUALITY

Our commitment to providing a combination of unparalleled customer service with a deep understanding of customer needs, directs the focus of our quality management system and instills a modern quality consciousness throughout our company. By adopting a culture that embraces complete quality responsibility, beyond the basics of inspection and test, every team member is empowered to take the necessary steps to realize that commitment. Our quality management system is aligned with the requirements of ISO 9001 and provides the high level of flexibility required in today’s fast-paced engineering world. Our dedicated quality professionals work with stakeholders to implement quality management practices that ensure we facilitate the efficient and effective delivery of products and services.

PROJECT MANAGEMENT

All team members are committed to the successful delivery of projects, and success is built upon a foundation of delivering on time and on budget. That is why our project management processes and procedures are aligned with industry best practice. The primary role of our Project Management Office (PMO) is to provide all team members throughout the organization with a common Project Management Institute PMBOK aligned framework, for launching and implementing project activities. Monitoring of project delivery is facilitated through our Industry leading Enterprise Resource Planning software, and a project management environment built upon the Microsoft Project platform.

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