

# Cathodic Protection

## PIPELINE INTEGRITY

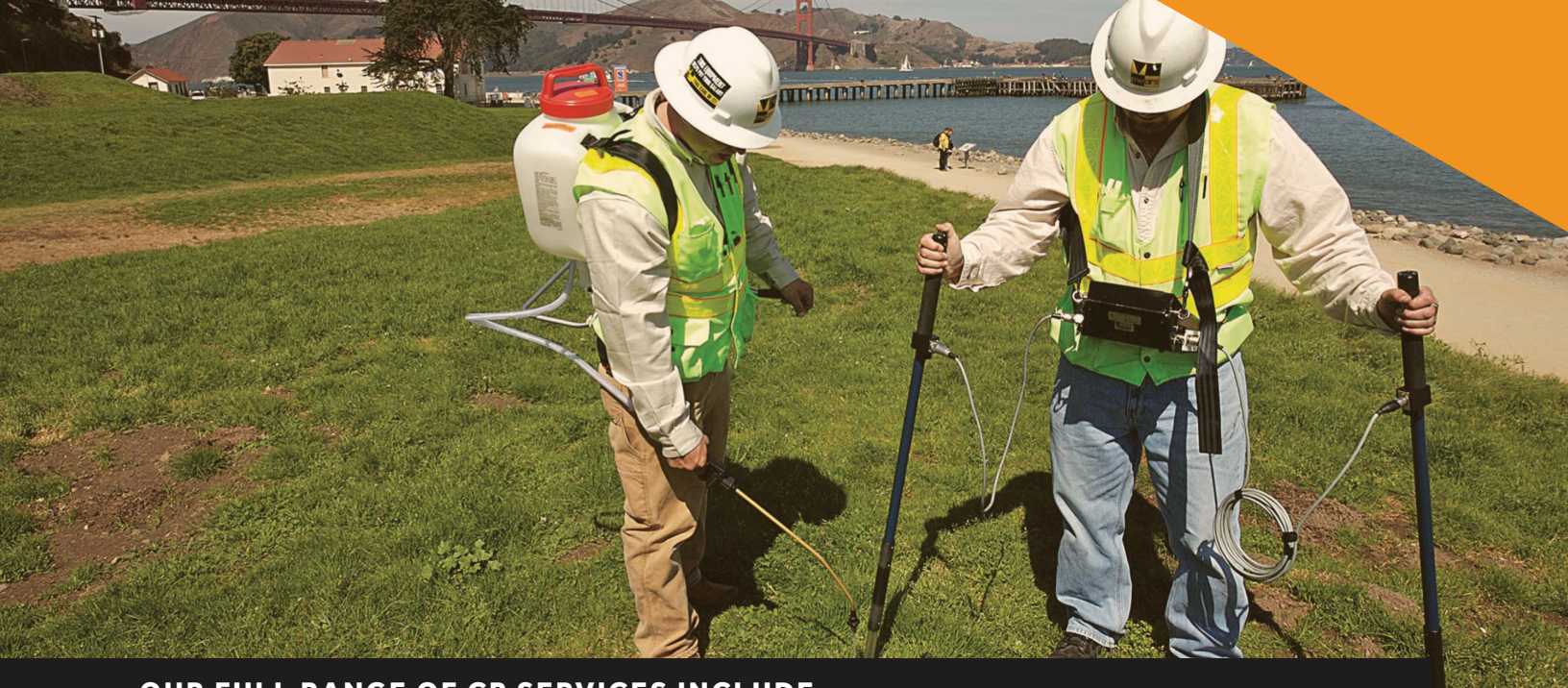
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As an industry leader in pipeline integrity services, Mears' unique capabilities allow us to provide a variety of tailored pipeline integrity solutions including cathodic protection (CP) to help control corrosion. Our safe, cost-efficient CP solutions are performed by the largest contingent of NACE Certified personnel in the United States.



**mears**

A QUANTA SERVICES COMPANY



## OUR FULL RANGE OF CP SERVICES INCLUDE:

- Monitoring, Evaluation & Audits
- Design Services
- System Installation & Commissioning
- Linear Anode System Design and Installation

### CATHODIC PROTECTION MONITORING AND EVALUATION

Mears offers CP monitoring, diagnostic testing and assessment services by skilled technicians under the supervision of experienced engineers. Test station surveys and close interval potential surveys (interrupted and depolarized) are among the key tools for the evaluation of existing CP systems. Data analysis is supported with proprietary software to determine compliance with client-selected criteria and identify the need for any remediation. Right-of-way surveys, including soil chemistry and resistivity surveys, are available for proposed pipelines.

### CATHODIC PROTECTION DESIGN SERVICES

Our engineers are experienced with the design and performance of all CP alternatives and the advantages of each to meet our clients' needs. For new or supplemental systems, consideration is given to sacrificial anodes or impressed current groundbeds using point or distributed surface configurations, deep anodes or linear anodes to achieve the client's corrosion control objectives and meet designated CP criteria as efficiently

as possible. CP design considerations include minimizing stray current influences on foreign pipelines and other nearby structures. The linear anode is an alternative with significant cost savings compared to recoating older pipelines.

### CATHODIC PROTECTION SYSTEM INSTALLATION AND COMMISSIONING

Experienced with the installation of all components required for a fully functioning CP system, our technicians are capable of activation and adjustment of systems for optimal operation. Operating manuals and monitoring schedules are available to support long-term corrosion control.

### LINEAR ANODE SYSTEM DESIGN AND INSTALLATION

Mears developed and patented a procedure for the installation of continuous linear anodes (patent no. 5,743,675). We are the first manufacturer-approved installer in the U.S. of the AnodeFlex linear anode system using this procedure and have designed and installed hundreds of miles of this product as a cost-effective alternative to recoating of some pipelines to restore effective cathodic protection.