

SUMMARY SHEET
CATHODIC PROTECTION
SERVICES & SYSTEMS



CCEL Industrial Engineering offers a full range of Cathodic Protection Services to protect buried or immersed iron and steel structures including:

- Pipelines (land, submarine, river crossings)
- Jetties and Quay Walls
- Offshore Structures
- Refineries and Process Plant
- Onshore Terminals
- Water Treatment Plant
- Steel Piling
- Above ground water or oil storage tanks (internal components and tank bottoms)
- Buried or Mounded LPG Vessels
- Power Stations
- Heat Exchangers and Calorifiers
- Steel Reinforcing in Concrete

The services provided include:

Consultancy	Plant & site surveys, cost evaluations, general and detail design, preparation of specifications.
System design	Optimum design for projects including the use of in-house design software, CAD draughting and provision of Bills of Quantities.
Supply	CCEL are prime suppliers of materials for both sacrificial anode and impressed current cathodic protection systems.
Installation	Installation by our technicians or supervision of installation in conjunction with client/contractor's non-specific staff (and diving team if appropriate).
Commissioning	Pre-commissioning, commissioning and interference testing, plus report and preparation of operation and maintenance documentation.
Monitoring	Monitoring and maintenance of systems including reporting and recommendations for remedial action.
Survey	CCEL can undertake corrosion surveys including soil resistivity measurements, and redox potential, plus sample retention for full laboratory analysis.
Specialist Pipeline Surveys	Pearson, close interval potential survey (CIPS), stray current and interference surveys, DC voltage gradient technique (DCVG) and signal attenuation coating surveys.
Turnkey	CCEL can undertake projects on a complete turnkey basis; including initial survey, design, supply, installation and commissioning.
Anti-fouling	CCEL are the patent owners of the Anfomatic® electronic anti-fouling system and offer a complete turnkey service.
MTCF® and Tank Pak	Corrpro offer a Mean Time to Corrosion Failure analysis, a unique non-invasive integrity assessment designed for underground petrol storage tanks. Where appropriate we offer the Tank Pak system specifically designed for cathodic protection of USTs.

Please note that this is just a summary sheet and more detailed information on these and other services can be obtained on request.



Corrpro Companies Europe Limited
Adam Street, Bowesfield Lane, Stockton on Tees, TS18 3HQ
Telephone: (01642) 614106 (8 lines) Telex: 587388
Fax: (01642) 614100 E-mail: ccel@corrpro.co.uk



Mixed Metal Oxide tank base Grid System-connection between anode and conductor bar



DCVG Survey on a pipeline in Eastern Europe



Monitoring an underground tank CP system



Standard Horizontal Groundbed installation utilising Silicon Iron anodes



Corpro Tank Grid CP Systems were installed on all tank bases at Reliance, Jamnager



Tank base Cathodic Protection system installation



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