



Cathodic Protection



Protecting your assets from corrosion

Metal structures and pipelines that run through an electrolyte (water or are submerged underground), are vulnerable to corrosion; a problem for a range of sectors, including oil and petrochemical companies, ports and jetties, water authorities and government organisations.

24/7 EMERGENCY RESPONSE

0800 592 827

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To safeguard these valuable assets, Cathodic Protection delivers the most cost effective solution available, ideal for industrial installations which come into contact with the sea, ground water and rivers. Cathodic Protection assists to prevent leaks, pollution, expensive repairs and replacements.



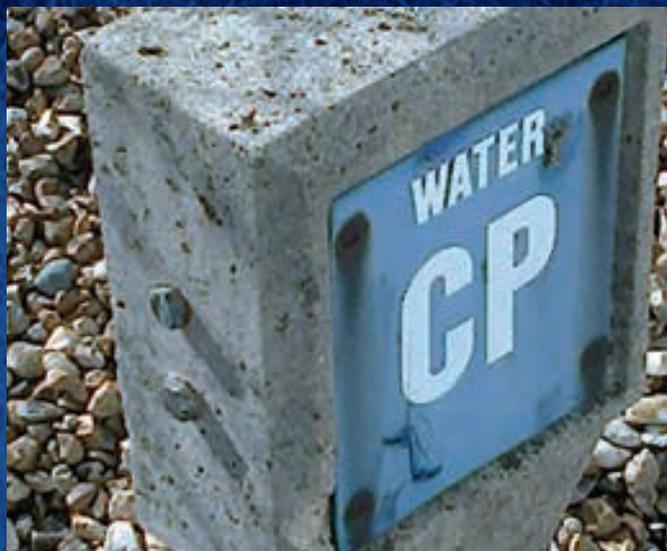
Cathodic Protection from Adler & Allan

Our Adler & Allan corrosion protection team are experts in the application of Impressed Current Cathodic Protection (ICCP) and Sacrificial Anode Systems, using qualified cathodic protection engineers Adler & Allan can provide an industry-leading service, complementing its range of tank and pipeline services.

Covering feasibility studies, engineering design, installation, commissioning and maintenance, Cathodic Protection from Adler & Allan will help prevent corrosion and breakdown, while increasing the service life of treated equipment.



- Cost effective designs that will minimise the expense involved in environmental clean-up and plant repair
- Safeguards against corrosion and provides additional asset protection
- Pipeline condition monitored using Close Interval Potential Surveys (CIPS) and Direct Current Voltage Gradient (DCVG) survey methods and GPS
- Careful consideration of river crossings and other areas where corrosion can be more aggressive causing increased risks of leaks
- Test facilities installed at regular intervals
- World leading expertise in consultancy, engineering and design, available separately or as part of a complete package.
- Ongoing maintenance contracts, whether Cathodic Protection has been installed by Adler & Allan or a third party.



Cathodic Protection applications

Water Mains & Facilities

Cathodic Protection to prevent external corrosion in steel water mains. Adler & Allan have worked in collaboration with Water Authorities throughout the UK to develop comprehensive and reliable solutions, including multiple types of ground beds both sacrificial and impressed current anodes, transformer installations situated along the length of the water main.

Clarifiers & Sedimentary Tanks

Clarifiers in particular are constructed in complex subdivided sections, resulting in large areas of exposed steel that require specially designed hybrid Cathodic Protection systems. Our approach is to use suspended iron or mixed metal oxide anodes to protect the main body of the clarifier, while reducing bacterial growth. For Sedimentary Tanks, which are of a more simple construction, ICCP anodes are sufficient.

Industrial Plant Protection

Corrosion protection is particularly important in industrial applications where the safety, efficiency and profitability of operations depend on the reliability of equipment and pipelines. We can install Cathodic Protection systems for industrial plant large and small - power stations, refineries and chemical plants, as well as the specialised requirements of residential heating schemes.

Outfall & Intake Protection

Cathodic Protection is essential on outfalls and intakes to reduce the risk of environmental damage and cut high cost of maintenance. In the case of sewerage outfalls, it is important to maintain the integrity of the pipeline as a whole, utilising the full flow to create maximum dispersion. Diffusers, which assist in this dispersion process, also need protecting.



River Estuary Crossings

Pipelines crossing estuaries, rivers and other shipping lanes are particularly vulnerable due to high levels of turbulence which accelerates erosion, combined with a greater risk of physical damage. Cathodic Protection will prevent corrosion and provide additional protection if coatings breakdown. ICCP systems are suitable for both on-shore and offshore installations, with anode beds created horizontally or vertically as required.

Maintenance contracts for optimum effectiveness

Whatever the application, regular maintenance will ensure Cathodic Protection systems remain reliable throughout their service life. If a system is neglected, a fault may go unnoticed until a serious corrosion problem has occurred.

A maintenance contract with Adler & Allan guarantees that the system is thoroughly examined and tested by qualified corrosion engineers at agreed intervals. We can offer this as a standalone service, even if A&A were not the original suppliers.

Sacrificed Systems

- Measure 'on' and 'instant off' potentials of the system
- Measure current output from the sacrificial anodes to determine their condition
- Predict remaining life span of anodes

Optional Surveys

- Close Interval Protection Surveys (CIPS) to calculate levels of protection and areas of concern along the length of a pipeline, based on results between known test locations.
- Direct Current Voltage Gradient (DCVG) to determine whether there are any coating defects.

ICCP Systems

- Check that transformer/rectifier units are operational
- Assessment of condition of anode ground bed
- All low level maintenance procedures
- Measurements from test point locations 'on' and 'instant off' potentials of the system
- Adjustments to achieve optimum protection throughout the system
- Checking isolation features and condition of isolation materials

National Coverage

With highly trained teams, specialist equipment and vehicles, and a nationwide network of depots, the Adler & Allan Group has grown to become one of the UK's leading emergency response service providers and oil and environmental services specialists.

- Waste Facility
- A&A Service Centre
- Alliance Partner



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