BAC®

CORROSION CONTROL

MARINE STRUCTURES

ENGINEERING & PRODUCTS

BAC®
CORROSION CONTROL

Marine

Metallic structures immersed in seawater are subject to severe corrosion including close inshore structures such as harbours, jetties and piers. Offshore Windfarms also provide corrosion challenges that our products and systems can effectively mitigate and monitor.

Overview

Seawater is one of the most corrosive of naturally occurring environments. Metallic structures immersed in seawater are subject to severe corrosion including close inshore structures such as harbours, jetties and piers, constructed from sheet or tubular piles.

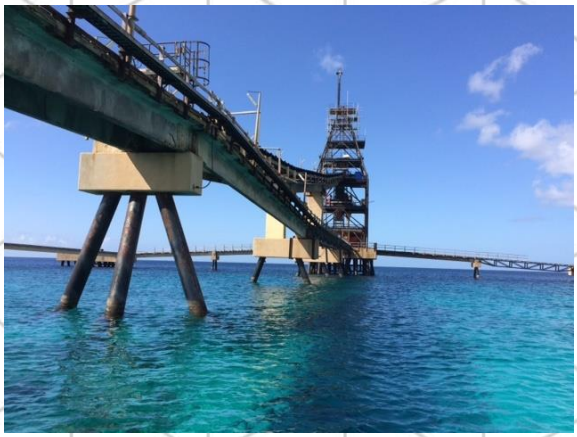
It is essential that these structures be protected against the ravages of corrosion by the application of cathodic protection in order to achieve or exceed its design life.

What BAC Can Offer ?

BAC specialise in the design, manufacture and installation of impressed current cathodic protection systems for large immersed structures such as jetty and harbour tubular piles, sheet piles, dolphins and pontoons. Impressed current cathodic protection current is provided by either manual or automatically controlled transformer rectifiers powering impressed current anodes specifically designed to operate in the conditions prevalent on site.

BAC carry out their designs in accordance with international standards under the control of our ISO 9001:2015 certified quality management system. System design lives can be in excess of 25 years as standard.

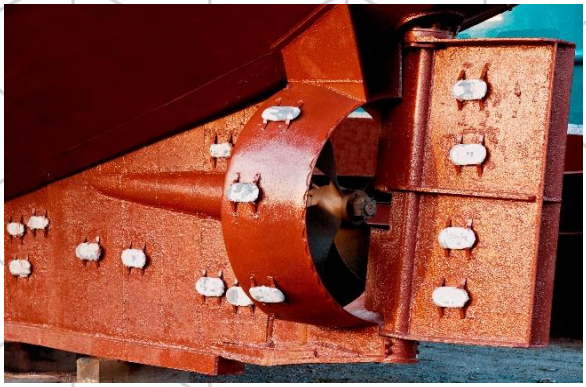
BAC can also repair and rehabilitate existing systems for asset life extension. With integrated Infinity Remote Monitoring and Control your CP system status can be viewed and controlled remotely to save costly and risk heavy site services.



Tubular Pile supports with ICCP system

BAC offer CP system design for offshore windfarm structures, external and internal systems

Ongoing operation of port facilities requires Cathodic Protection

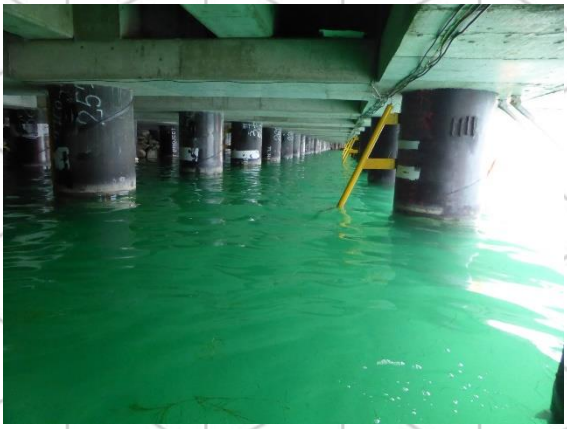


BAC offer a wide range pf Galvanic Anodes and Shaft Earthing systems for boats and ships.

Anode and Reference Electrode Support Tubes

80 No ICCP Transformer Rectifiers for Port Project in Central Asia

ICCP system for a salt loading jetty in the Caribbean



Cantilever Anode Supports for Tubular Pile CP system

Cathodic protection of Harbours and Jetties
BAC willingly provides advice and outline system design for cathodic protection of Harbours and Jetties. In order to do this, as much of the following information should be provided - the more information supplied, the closer our proposals will be to the final designs:

- Type of piling
- No/length of piling
- Depth of piling above and below seabed
- Specification for pile coating
- Method of continuity bonding
- Layout drawings
- Classified hazardous area
- Facilities for isolation from other structures
- Power supply type and availability
- Existing CP Systems

Case Histories and Clients
BAC work with many of the worlds leading marine and offshore plant owners, operators and contractors and on the most exacting and prestigious of projects , a small example of are shown below

Project	Scope
Cargill Salt Loading Jetty	Design, manufacture, supply, install and commission of a Cathodic Protection system
UK Ports	Design Supply installation and rehabilitation for many of the UK's main port loading structues
Southampton Port	Design, manufacture, supply, install and commission of a Cathodic Protection system
Gwynt Y Mor	Supply of materials and continuity bonding equipment for offshore wind farm
Turkemnbashi International Seaport	Design, manufacture, supply, install and commission of a Cathodic Protection system for > 3000 tubular steel piles on a sea port structure.
Mersin International Seaport	Supply of Transformer Rectifier for ICCP systems

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