

New Jetty, St. Peter Port, Guernsey



PROBLEM

Since 2003 St Peter Port Jetty has been undergoing significant repair work necessitated by structural corrosion caused by sea water. After discovering that the corrosion was far more extensive than initially thought it was decided that an Independent Current Cathodic Protection system (ICCP) was required to protect against further erosion of the jetty structure.

As a further challenge, the system had to be installed while the jetty remained operational.

SOLUTION

Duvine was recommended and then selected the CP500 Rectifier Module, allowing for centralised control and 'plug and play' capability with the required network of protective anodes inside the Jetty structure.

The advanced telemetry systems in the CP 500 system also allowed for centralised monitoring and command of the ICCP, ensuring maximum efficiency and effectivity.

35 Zones with up to 16 reference cells per zone, all controlled by one user interface.

KEY BENEFITS

Through using Duvine's ICCP, our customer benefited from:

- Flexible installation capability, being able to work around the Jetty's working requirements and the incoming tides
- Ongoing protection against corrosion, safeguarding a £13.7m project.
- Remote monitoring and control capability.
- Security from our ISO9001 status.
- A cost effective, scale-able and easy to use solution.

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Duvine's ICCP solution protecting the supports of the harbour wall, including the concrete pillars and cross beams.

Inside Duvine CP500 power unit, showing the wiring of the reference cells per zone



Duvine Power unit on the side of the Harbour wall