

Braefoot Jetty

Scotland, UK



Country: United Kingdom

Timescale: Sept 2013– July 2014

Structure: Reinforced Concrete Jetty Deck

Client: Shell, UK

CPT Treatment used:

DuoGuard™ Hybrid Anode System



Braefoot Jetty is used as a loading jetty for tankers transporting hydrocarbons into the local processing facility. The structure is formed of steel piles supporting a reinforced concrete deck on which the loading gear is located.

Problem

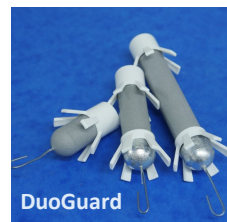
Continual exposure to sea salts from tidal movement and spray resulted in chloride contamination of the concrete and areas of corrosion induced spalling. The client was looking for a 20+ year corrosion mitigation solution.

Solution Developed

CPT designed a galvanic protection system to protect both repaired concrete and existing chloride contaminated concrete using DuoGuard anodes installed onto the beams and soffit. CPT worked alongside the client and contractor to facilitate the system installation within the robust health and safety guidelines required on hydrocarbon plants.

Benefits

The DuoGuard (Hybrid) anode system was selected due to the minimal maintenance requirement following installation, the speed and simplicity of installation, supporting technical data and technical support offered by CPT. A monitoring system was designed to allow on-going measurement from the upper deck of the structure.



CPT Products Used:

- ◆ DuoGuard™ 175 and 350
- ◆ DuoCrete SD Mortar
- ◆ MN15 Ref. electrodes

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