

# Cape Don Lighthouse

Australia



**Country:** Australia

**Timescale:** May—September 2013

**Structure:** Cape Don Lighthouse

**Clients:** Australian Government, (AMSA)

**CPT Treatment used:**

DuoGuard™ Hybrid Anode™ System



*The Cape Don Lighthouse is located on the western side of the Cobourg Peninsula , Northern Territory , Australia. The Lighthouse was built in 1917 to mark the eastern approach to Darwin (the passage between the Cobourg Peninsula and Melville Island) .*

## Problem

Over the last 20 Years the condition of the structure had deteriorated and it was suffering from concrete reinforcement corrosion. This was believed to be the main contributing factor to the spalling **and** delamination seen.

## Solution Developed

The DuoGuard Hybrid Anode system (4500 DuoGuard 175 & 500 Anodes) was installed to halt ongoing corrosion risk. Due to the tropical environmental conditions and transportation of materials via barge ex Darwin the project was extremely challenging.

## Benefits

The corrosion protection system was designed to ensure an extended 25 years of jetty service. MN15 reference electrodes were also installed for continuous monitoring of the system , with the facility to determine steel corrosion rates.



DuoGuard 500



Ref. Electrode

## CPT Products Used:

- ◆ DuoGuard™ 175 and 500
- ◆ DuoCrete SD Mortar
- ◆ MN15 Ref. electrodes

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