



SEAKING ELECTRICAL

Client Requirement

The RFA DILIGENCE (A 132), the Royal Navy's premier repair vessel, which has seen active operations throughout the Falklands and Gulf wars, required a 4.5MVA load bank test on the vessel's **2.52MW Wartsila generators**. A 20ft 6MVA load bank and two 2.9MVA transformers operating a 6kV 60Hz, 3-phase system were transported to the Birkenhead dockyard, where the vessel resided while it underwent a major £16m refurbishment plan.



Load Bank Package



**6MVA (20 foot)
Resistive/
Reactive
Load Bank**



**2 x 2.9MVA
Transformers**



**Eclipse
PC
Control
System**

Prior to the start of the two week testing schedule, we **installed both low and medium voltage cabling** and ensured the load banks achieved a resistive and reactive capability at 0.8PF.

The Diligence has seen some heavy use over the last 25-years and has had the longest deployment of any RFA ship in recent times, **which makes our job even more crucial to the continued success of the vessel.**

Jo Price, Rental Manager, Crestchic Ltd.

Key Objectives



The loadbanks provide a resistive/reactive load at 0.8pf, which fully tests the generator's engine output.



Eclipse software control for data capture, transient recording and stepped load increments up and down of 1kW/1kVA, allowing for incredibly accurate application and rejection of load.



The all-weather ISO containers are perfect for operation in a shipyard environment.

Crestchic's rental fleet is the largest of its kind in the world and provides a highly flexible solution for companies that have a load requirement. With over 30 years' experience in the sector, the company has a **capacity in excess of 150MVA worldwide.**



In Budget



On Time



**Crestchic
Engineer on site**



**All-Weather
Containers**