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## Offshore Refurbishment

### Brae Alpha Platform

Cullum Detuners supplied complete exhaust systems on four Rolls-Royce Olympus Engines on the Brae Alpha platform in 1983.

In 2009 the Power Generation equipment on the platform was upgraded and 2 new GE LM2500+ units were installed. Cullum were tasked with carrying out an initial survey to establish the condition of the original exhaust systems, components and extent of supply.

The survey established which sections needed to be replaced and which would be refurbished. Following manufacture of new sections and refurbishment an additional installation survey was carried out.

Working alongside the platform engineering team a plan of installation was developed and the work successfully completed.

The Cullum scope included:

- **Condition Survey**
- **Installation Survey**
- **Thermography of Equipment**
- **Detailed Condition Reports**
- **Design of Cold Case Exhaust Sections**
- **Design and integration of Transition, Attenuator Sections and Expansion Joints**
- **Supervision of Installation**
- **Manufacture of replacement exhaust section**
- **Refurbishment of Exhaust Sections**