



Detailed Thermal Inspection of Combustion Exhaust System

TAQA Cormorant Alpha Platform – UK, North Sea

Cullum Site Services were contracted by Wood Group North Sea Engineering on behalf of TAQA Brantani to carry out a detailed conditional inspection of 7 acoustic packages on the Cormorant Alpha platform.

Cullum's scope covered 7 units in total consisting of Rolls-Royce Avon's and Solar Centaur turbines. Using the latest in handheld thermography equipment it was possible to pin point areas of concern which could impact the production capabilities of the platform and potential health and safety concerns.

The detailed report enabled a program of life extension measures to be put in place to ensure many years of safe and reliable production.

In brief the Cullum scope included:

- **Produce scope of work package in advance to ensure compliance**
- **Review condition of Air Intake Systems for all packages**
- **Review condition of Combustion Exhaust Packages**
- **Detailed conditional inspection of all Flexible Joints**
- **Dimensional inspection of ductwork to enable drawing production**
- **Generation of general assembly drawings**
- **Detailed report showing Thermography results**
- **Propose replacement sequence for items requiring substitution**
- **Recommendations on life extension program for systems**
- **Recommendations on refurbishment procedure**