

# ROAV INSPECTION

## Workscope

In conjunction with Cyberhawk, Stork was contracted to deliver a structural and coating inspection of an offshore drilling derrick for Shell on the Brent Delta platform. Such inspections can prove expensive, time consuming and potentially dangerous.

This was the world's first inspection of an oil platform by Remotely Operated Aerial Vehicles (ROAV's) removing the need for costly shutdowns and safety risks associated with traditional rope access inspections.

## Solution

Stork assessed the remaining fabric maintenance scope on the asset and commissioned Cyberhawk to get an accurate record of its condition. HD images were captured and relayed live from the ROAV to allow for a full assessment of the structure and coating condition of the operational drilling derrick. The inspection involved accessing areas that would have been particularly challenging and time consuming for traditional rope or scaffold inspections.

Images and expert engineering analysis from Cyberhawk gave a clear picture of the asset to support the maintenance programme. Using the ROAV allowed equipment to remain fully operational during the inspection with no disruption to operations.

The project represents a revolutionary model for future offshore inspections all over the world.

## Awards

In conjunction with Cyberhawk Innovations, Stork Technical Services won the prestigious 'Business Efficiency' category in the Oil & Gas UK Awards 2012 for the money and time saving benefits delivered on this inspection.

This award demonstrates our continual drive towards challenging traditional industry methods and supports the development of ROAV inspections to broaden the scope of applications offshore.



## Project information:

By using innovative technology coupled with expert interpretation, Stork and Cyberhawk delivered a quality service with improvements in time, costs and safety:

- No lost production which would have cost an estimated £80,000 - £100,000 per day
- Significantly reduced scope of work by 42%
- Wax Oil preservative coating delivered a saving of 1725 man hours
- The wax oil coating was delivered in 14 days compared with 6 weeks for conventional paint treatments
- Overall project saving of £4.6million