

STRATEGIC PARTNERSHIPS ...CREATIVE SOLUTIONS

MONOPILE INSPECTIONS

BURBO BANK FOR MT HOJGAARD IN JUNE 2011 – SEPT 2011

During 2011 REDS was contracted by MTH on behalf of DONG Energy to carry out an inspection program on the foundations at Burbo Bank Offshore wind farm. These inspections were carried out subsea both internally and externally of the monopile.

The diving operations on the external foundation were carried out from a multicat type vessel with an audited IMCA compliant diving system.

Diving operations inside the monopile were carried out with a separate, audited IMCA compliant portable diving system. This system is sectional and is winched up to the foundation, assembled and commissioned on each foundation.

The foundations have difficult access/egress to the water contained within the confined space of the Monopile. Specialist equipment was installed and in a state of constant readiness during the diving operations should a need to recover a diver or team member be required.

Prior to the start of the operations recovery drills were carried out confirming that a speedy and efficient rescue could take place.

The inspections carried out were:

- Mapping of the Ultrasonic thickness readings of the Monopile and J Tubes
- Mapping of the Corrosion Potential readings of the Monopile and J Tubes
- Brattberg seal inspections (including the excavation)
- Anode inspections
- Silt Sampling
- Dimensional Surveys
- Video inspections

