

## Come and visit us on stand B0149

### Introduction

Managing large offshore multi-stakeholder projects through the construction and operation & maintenance phases requires a dedicated team of marine personnel.

Effective and safe management of the vessel spread and contracted personnel is crucial to ensuring that projects are run efficiently, safely, on budget and on time.

### Vessel & Contractor Assessment

Procuring and contracting appropriate contractors, vessels and equipment onsite is key to the safety and efficiency of operations and has a huge impact on the CAPEX and schedule of an offshore wind farm project.

#### Contractor Audits

Detailed assessments should be based on competency and experience of the project specific marine operations and include the evaluation of key personnel.

#### Marine Plant 'Fit For Purpose' assessments

It is vital to ensure that only safe and appropriate vessels and equipment are used on site. This includes appraisal of the following:

- Vessel certification
- VHF and AIS checks
- Lifesaving appliances
- Equipment checks
- Fire fighting equipment
- Liaison with Marine Warrantee surveyor



#### Sea Trials

Design and management of Sea Trails should directly reflect the site-specific constraints and project demands.

### Onsite Coordination & Monitoring

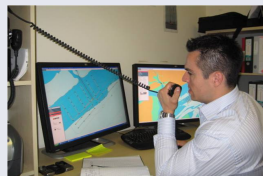
#### Marine Coordination

Projects benefit from using Master Mariners to coordinate all offshore vessel activities, act as marine operations client representatives and ensure that activities are carried out in accordance with documented policies and procedures, industry best practice and legislative compliance.

Marine Coordinators should have detailed knowledge and experience of managing offshore activities and associated Health and Safety responsibilities.

Daily tasks of a Marine Coordinator are broad, but include:

- A radio watch during all site activities in line with the MCA Guidance
- Tracking of personnel across site including associated certification and issuing of site passes
- Management of the induction and safety briefing
- Oversight of marine operations process
- Communication with marine stakeholders
- Acting as a focal point for the Emergency Response Cooperation Plan (ERCOP)



#### Diving and ROV operations

Subsea operations are inevitably required for inspections and surveys on offshore projects. These procedures are expensive and high risk, independent marine experts can identify design changes or alternative working methods.

#### Offshore Supervision

To ensure the safety of operations and that the project is excited to schedule it is vital that offshore representative has appropriate experience of specific vessel type being used as well as the operation being carried out

### Marine Management Tools

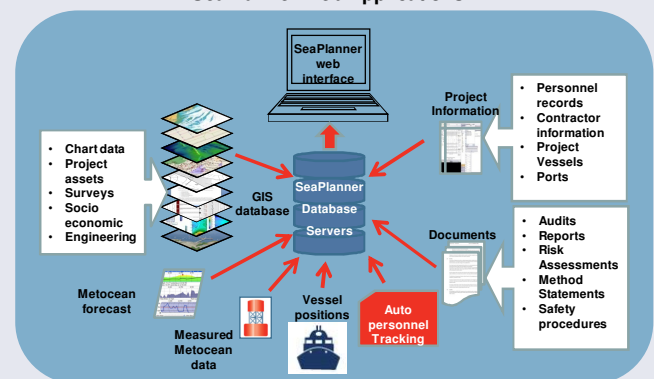
The expanding requirement for health and safety, marine interface and operations management has lead to the development of a number of bespoke tools to assist marine co-ordinators, site personnel and managers.

This involves the collection management and display of relevant and live data including Metocean, vessels, personnel, asset and the physical environment.

Capture of this data facilitates safe and effective real time co-ordination, a central repository to be used as the basis of the safety file ad an audit of all activities offshore.

The SeaRoc Group have developed the SeaPlanner web applications to assist marine management on offshore wind farm projects.

#### SeaPlanner Web Applications



### Lessons Learned

Marine Coordinators play a vital health and safety role in tracking and vessels and personnel across site and as a focal point for emergency response planning and safety and site inductions. In addition to CDM legislation and MCA marine guidance, experience on current wind farms and lessons learnt from managing oil and gas projects has resulted in a range of best practices which can be applied to new projects:

- The Marine Coordinators office should be manned 24 hours a day to ensure continual oversight of operation and emergency response standby.
- A day work supervisor is required in order to carry out vessel inspections.
- On larger scale projects more than one coordinator will be needed to man the office at a time to deal with the increased number of vessels and personnel.
- Reliable communications are vital this could mean medium distance radio and satellite phones.
- Regular tabletop and field safety drills should be carried out to assess emergency response procedures
- Onsite Marine Coordinators should have a working knowledge of the vessels capabilities and constraints working onsite
- Marine personnel should keep in close contact with local marine authorities
- An audit of all activities including vessels and personnel movements and activity logs should be kept.

### Bigger Projects, Further Offshore

Future offshore projects including UK Round 3 will require an expansion of the marine co-ordinators role as projects become larger in scale and further offshore. This will include the management of an increased offshore infrastructure:

- Offshore accommodation
- Medical and safety facilities
- Offshore base for coordination of operations

