

## Woodside Enfield Project

K2 was approached in early 2004 initially to assist the operations group within the project with the development of detailed work-scopes for the implementation of the O&M requirements. After the initial development work was completed K2 was requested to supply the services necessary to develop all of the requirements for the O&M of the facility.

The Enfield development was particularly challenging as it is situated near an environmentally sensitive area (Ningaloo Marine Park) and is one of the first facilities to be completely built and commissioned in the one shipyard (Samsung Heavy Industries, Koje, South Korea).

The scope of work for this project included the following major areas;

### Asset Register

- Gather information required to identify all maintainable items
- Gather all data necessary to allow maintenance personnel to maintain the facility
- Provide the above information ready for upload into SAP PM

### Maintenance

- Criticality analysis of all equipment
- Maintenance review using RCM methodology of all equipment
- Detailed Reliability Centred Maintenance (RCM) for selected systems
- Write maintenance procedures for identified requirements
- Identify spare parts requirements for preventive maintenance routines
- Produce maintenance plan for upload into SAP PM

### Inspection (Corrosion Management)

- Identify all Corrosion loops on the facility
- Risk Based Inspection (RBI) review of facility including areas covered by Class certification requirements
- Write inspection procedures for identified requirements
- Produce maintenance plan for upload into SAP PM

### Maintenance System (SAP PM)

- Upload all assets (Functional Location)
- Either upload or link available asset data
- Set-up maintenance plans and generate work orders
- Upload BOM's to all assets

### Spare Parts

- Identify all spares required for the facility
- Review spares parts requirements to identify spares holding levels
- Catalogue all spare parts directly into SAP MM
- Develop Bill Of Material (BOM) for all equipment with spares identified

### Operations Procedures

- Source information for development of operations procedure manuals
- Produce system overviews for each procedure manual
- Identify procedure and isolation requirements for each procedure manual
- Write operations procedures for all facility systems

As part of the above process K2 has been responsible for overall management of the O&M deliverables. This has involved interfacing with the client as well as the many suppliers, designers and the shipyard to ensure the deliverables are of the highest possible quality and are delivered in line with the commissioning schedule.