

Case Study



Sheet Ref:09Q376

Offshore Maintenance Prioritization and Planning – Static Equipment

Summary:	The management of maintenance in a production field with more than 150 platforms is a complex task, particularly when various maintenance databases and departments are involved. This Project demonstrated PIMS ability to design and develop a management system to monitor KPI performance and to implement a structured process to segment the assets, baseline outstanding maintenance tasks and to carry out platform integrity and reliability assessments to produce prioritised maintenance plans to maximise production and optimise maintenance budgets.
Asset Sector:	Offshore Platforms, Process Facilities, Static Equipment
PIMS Service Components:	Strategic Planning, Segmentation and Prioritisation, Data Gathering, Review and Integration, Reliability Methodologies, Maintenance execution planning
Customer:	Offshore Latin America
Customer Brief:	PIMS was to establish and baseline a maintenance management process including the development of KPIs, platform prioritisation based on Criticality, integrity and reliability assessment of 5 high priority platforms in addition to the assessment and prioritisation of all outstanding static equipment maintenance tasks
PIMS Approach:	<p>The PIMS project team of Operational Reliability, Inspection, maintenance and Integrity Engineers were used to carry out the following:-</p> <p><i>Strategic Planning</i> – Developed Key Performance Indicators (KPIs) and a maintenance management digital dashboard to track and monitor static equipment maintenance</p> <p><i>Segmentation</i> - Established a strategy for segmenting platforms into families in order to enable maintenance to be proactively planned and managed</p> <p><i>Prioritisation</i> – Reviewed, evaluated and prioritised all outstanding maintenance tasks including a database of miscellaneous anomalies.</p> <p><i>Reliability Methodologies</i> –Developed and implemented a Criticality Analysis model to enable platforms and maintenance to be prioritised based on platform criticality. Also developed a failure reporting system for static equipment for the implementation of RCA.</p> <p><i>Integrity and Reliability Assessment</i> – Platform assessments were conducted for 5 high priority platforms, including Visual Inspection, review of inspection results and outstanding maintenance tasks/anomalies. Fitness For Service assessments were carried out and 5 year maintenance plans were developed based on RBI in addition to other observations and recommendations.</p>
Project Outcome:	A maintenance management system was developed in order to proactively manage maintenance expenditure, performance and execution against plan. All outstanding maintenance activities were reviewed and prioritised to ensure expenditure is based on priority. The >150 Platforms were segmented and an integrity and reliability assessment conducted on 5 high priority platforms in order to baseline this structured approach to asset management.
Project Reference:	To discuss this Case further with the end-user, please first liaise with PIMS of London.