IMRANDD
INTELLIGENCE WITH INTEGRITY

CLIENT	GLOBAL OPERATOR
SECTOR	UPSTREAM OIL & GAS, UKCS
ASSET	FPSO
DATE	2016
DURATION	2 MONTHS
OBJECTIVE	RBI STRATEGY REBUILD FOR HULL, TOPSIDES, MOORINGS
SERVICES	INTEGRITY MANAGEMENT CONSULTANCY

Bringing class-approved efficiency to FPSO integrity management

PROJECT OVERVIEW

Imrandd was tasked with developing and implementing a new full integrity management strategy for a new-build FPSO, ahead of deployment in-field. The scope encompassed a full review of all components and equipment, defining the likelihood and consequence of potential failures, and originating a strategy to manage the consequences. In close consultation with the operator and DNV, Imrandd implemented one of the UK's first class-approved RBI strategy for a marine vessel.

THE CHALLENGE

The operator's high-level goal was to consistently improve risk management and resource allocation across its operations. With support from Imrandd they set out to instil this spirit of improvement and efficiency in operations from the outset.

Taking an RBI approach to integrity management was not standard practise for marine vessels at the time. However, the traditional class approach to FPSO hull integrity management was being broadly challenged, including by class societies, due to the operational differences between FPSOs and traditionally classed marine vessels.

THE SOLUTION

RBI strategy is not solely reliant on inspection as a means of monitoring risks. In line with our approach, all Imrandd teams are thorough in their assessment of the wider picture on the asset, incorporating an appropriate range of other data sources to ensure the strategy is balanced and robust. For this scope, the Imrandd team made certain that every element was fully explored, reviewed, and justified, chairing all relevant risk assessments, peer review, and risk management sessions.

With an RBI approach as the foundation, Imrandd's team was confident that the strategy would still meet the highest regulator standards while better accommodating the efficiency in inspection and enactment planning required by the operator.

BENEFITS

- Robust identification and assessment of risks accompanied by a defensible and actionable strategy to monitor and manage these
- Efficient risk management and resource allocation, saving time and money across the future asset life
- Blueprint for asset integrity management, replicating excellent practise and efficiencies

CONCLUSION

Working closely together, Imrandd, the operator, and DNV were able to put in place one of the first class-approved, RBI-based, full integrity management strategies for an FPSO. Our efforts in defining a strategy that went beyond the standard was appreciated by both operator and regulator.

Imrandd's expert consultants will always adopt a strategic approach to asset integrity management, looking beyond the baseline requirements, in this case of standard classification, and proposing a solution that meets the client's wider business objectives, bringing the highest level possible of efficiency in inspection planning, enactment and spend.

At every stage we ensure that as a result of our partnership, the asset owner builds a solid, evidence-based, defensible foundation on which to rest their asset integrity management strategy.

Following a successful five years of implementation, Imrandd and the client are currently working together to prepare to begin the approval process with DNV for the next five-year cycle.