

ODIN - diverless hull inspection

Despite low oil prices, oil majors continue to show their preference for floating assets for deepwater production and drilling sectors.

Many operators and drilling companies plan to remain on station for extended periods bringing a number of integrity and compliance challenges – this requires good hull integrity which was traditionally achieved by drydocking.

More recently, divers or work class ROVs have been used, but these solutions are costly and incur significant safety, commercial and technical risk.

The industry responded with the HITS (Hull Inspection Techniques and Strategy) JIP to consider improving the approach to hull inspections and one key focus area was the inspection of the underwater hull.

The EM&I Group is a founder member of HITS and has been a market leader in asset integrity management services to the oil and gas industry for over 30 years.

"We spent the last ten years developing new asset integrity strategies for floating offshore assets, based on a 'No Drydock Safely' concept" Danny Constantinis CEO of the EM&I Group, said. "The ODIN UWILD (underwater inspection in lieu of drydocking) development is an intrinsic part of the 'No Drydock...Safely' package."

ODIN has been accepted by the major class societies, regulators, operators and Bahamas Flag and was proven and refined on two operating FPSOs in Brazil in 2014.

The drilling industry was quick to see the benefits of the ODIN approach and fleet wide contracts were awarded by three major drilling companies in 2015.

Three drillships used ODIN in 2015 and significant orders have been placed for 2016.

ODIN is a complete hull structural integrity package which is lower cost, lower POB, safer



and gives operators and regulators better information on hull condition allowing them to stay on-site for extended periods.

ODIN allows a detailed inspection and functional test of critical isolation valves without shutdown, a job that would require divers to blank-off hull openings and a maintenance team to strip the valves down for inspection.

ODIN also enables the inspection of the outside of the hull from within, thus avoiding removal of marine growth and damaged coatings.

"The inspection programme can be periodic or spread over a number of five-year periods, avoiding additional tank entries and reducing costs and cash flow by 20 per cent and POB

by 70 per cent," Pat Lawless EM&I's COO, said. "ODIN is not weather sensitive and that means budgets are very accurate."

ODIN inspections can be carried out while drilling assets are on-hire making them more competitive and reducing their own client's support costs.

The EM&I Group continues to invest in improving integrity methods and enhancing safety, environmental and commercial performance – supporting the strategy of 'No Drydock...Safely'. ■

Further information

EM&I

www.emialliance.com

No DrydockSafety



Delivering integrity

ODIN® EM&I's Diverless UWILD

Safer - Lower Cost - Approved

- ODIN is a new way of meeting the requirements of underwater hull inspections, without using divers or work class ROVs.
- ODIN is accepted by the major classification societies and flag states.
- ODIN has been implemented successfully on drillships, semi subs and FPSOs while on station, on hire and operating.
- ODIN reduces cost by 30% and POB by 70%
- ODIN reduces safety risk, weather dependence and delivers high quality integrity information.
- ODIN can be integrated into the Continuous Hull Survey programme, saving further costs and POB.

EM&I are world leaders in Asset Integrity with over 30 years' experience in innovative services that keep your floating assets On Hire, On Station, Productive and Operating Safely.



ODIN® delivers the following benefits;

- Increased on-hire & uptime
- Reduced cost
- Compliant (Class and Flag)
- Improved information quality
- Minimal weather dependency
- Minimal operational disruption
- Applies to all FOIs
(FPSOs, MODUs, FLNGs, TLPs, Semi-Subs & Drill Ships)



Corrosion Protection!



HAZOP Management!



Pressure System! IRM!



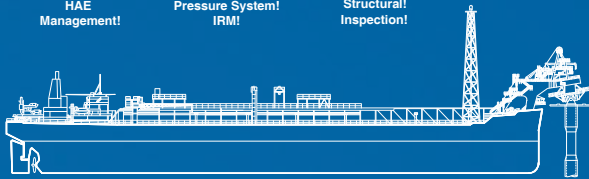
Structural! Inspection!



Flare IRM!



Piping / Vessel! R&M!



Structural R&M!



Integrity / Compliance System!



In-Water! Corrosion Protection!



In-Water Inspection!



In-Water Structural! R&M!



Moorings!



Lifting Gear!

Integrated Asset Integrity!

For more information and Client Testimonials view our Website:

www.emialliance.com

