



HullGuard® Diverless ICCP

Patents pending - Please refer to www.emialliance.com for patent information

The Challenge

Keeping Floating Offshore Installations (FOIs) on station for extended periods requires effective methods for managing hull external corrosion, particularly for areas constantly under water. FOIs may not dry dock for extended periods and coatings and anodes may not last for the required life on station. Maintenance will require expensive diver or ROV intervention with associated cost, POB and safety implications.

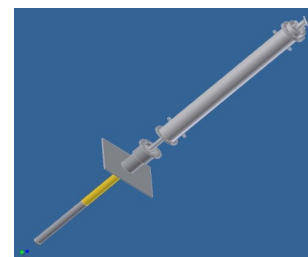
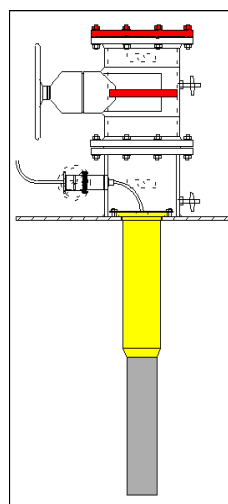
The Solution

EM&I has developed HullGuard® which is a new class accepted ICCP (Impressed Current Cathodic Protection) system specifically designed for FOIs including FPSOs, MODUs, FSRUs and FLNG assets.

HullGuard can be easily installed on new assets or can be retro-fitted to those in operation and maintained without the need for diver / ROV intervention and with no operational disruption.

HullGuard uses an EM&I developed system of retractable anodes, specifically designed for FOI assets, which overcomes the disadvantages of conventional systems based on ship requirements.

HullGuard can be used as an upgrade to existing ICCP or sacrificial anode systems for life extension projects or to replace existing diver / ROV maintained anode systems.



The Benefits

HullGuard avoids the risk and cost of diver / ROV intervention yet provides effective protection for the life of the asset on station at a significantly lower life cycle cost than alternative methods.

Innovations

EM&I's HullGuard package delivers corrosion protection, hull integrity and compliance with class, regulatory and corporate requirements while reducing your management and life cycle costs.

HullGuard is part of EM&I's 'No Drydock....Safely' range of services which includes hull, structural, pressure system, Ex equipment and corrosion protection services focused on the floating production and drilling industry.

Track Record

EM&I measures our performance through systems like FPAL and unsolicited testimonials. Our proven track record of satisfied Clients is available on our Website.

Further information is available from your nearest EM&I office which will be pleased to discuss your particular needs.

Case Histories and References, demonstrating our capabilities and Client satisfaction, are available on our Website.

Credentials

Health & Safety – We assure Occupational Health & Safety through our ISO 45001 accredited Health & Safety Management System. EM&I has an outstanding HSE record and has been awarded twelve, consecutive, RoSPA Occupational Health & Safety Gold Awards including five Gold Medals and four President's Awards plus other international awards.

Other safety awards include a platinum IFAP Safe Way Safety Achievement Award in Australia and the Leith Offshore Safety Award.

Environmental – We assure Environmental performance through our ISO 14001 accredited Environmental Management System.

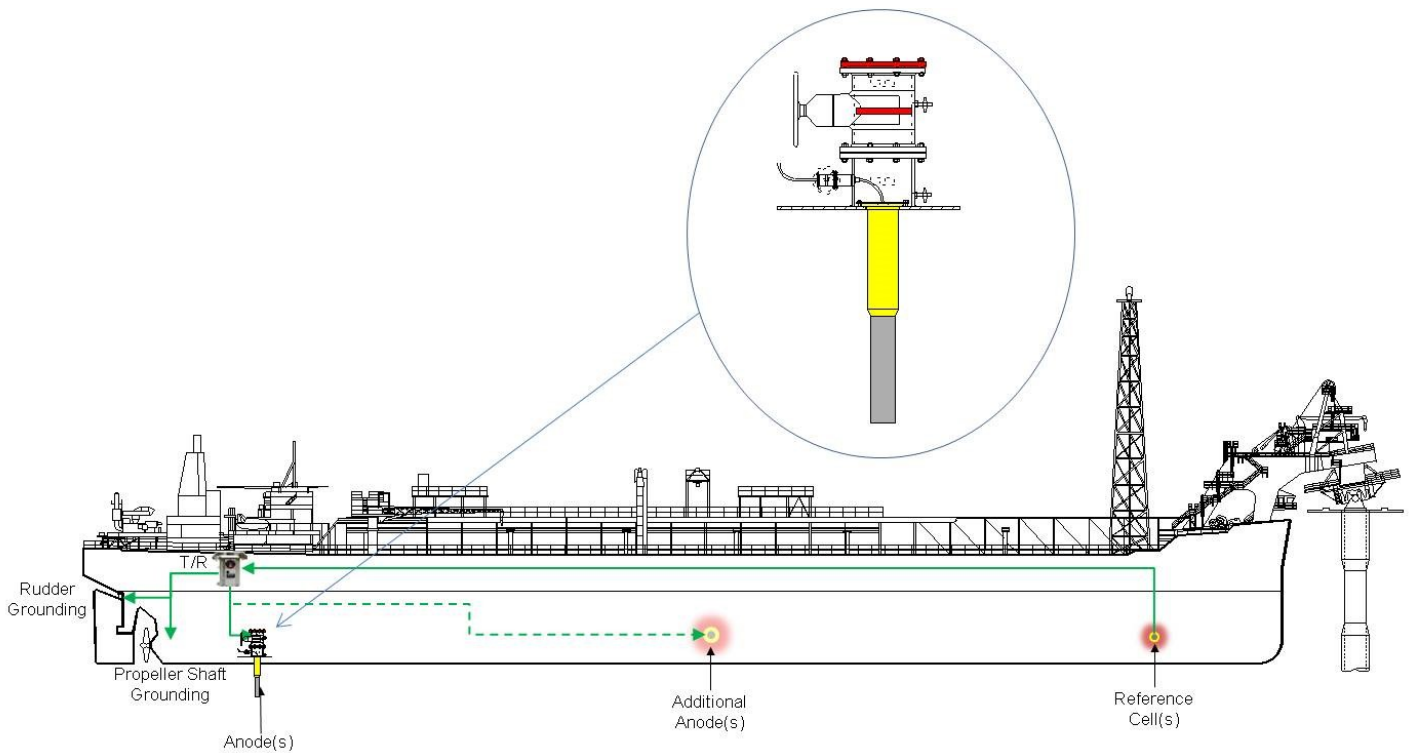
Quality – We assure quality through our ISO 9001, ISO 17020 and ISO 17025 accredited Quality Management Systems and seek continuous improvement by measuring Client satisfaction through FPAL and regular Stewardship Reviews.

Compliance – EM&I's methods are approved by Classification Societies and accepted by regulators worldwide.

Rope Access – EM&I have been a Full Member of IRATA since its inception in the 1980s.

HITS JIP – EM&I have a leadership role in the Hull Inspection Techniques and Strategy (HITS) JIP whose members include Oil Majors, Classification Societies, Regulators, Lease Operators and service companies.

HullGuard[®] Diverless ICCP



Integrated Services

EM&I's proven technical and project management experience means we can successfully deliver complete projects thus letting you focus on your core business.

Our in-house service capability includes Asset Integrity Systems, Inspection, NDE, Maintenance & Repair, Corrosion Management, Cathodic Protection, Safety, Environmental and Engineering services.



Visit our Website:- www.emialliance.com

