



## Corrosion Under Insulation Services for Floating Production Assets

### The Challenge

Corrosion Under Insulation (CUI) occurs when water penetrates external clad / jacketed insulation and fireproofing of piping, vessels and structures. CUI has been the root cause of many major leaks within the Oil, Gas and Petrochemical industries resulting in loss of production, health and safety issues and increased maintenance costs.

### The Solution

EM&I use an innovative three stage methodology to combat CUI which includes a variety of advanced Non Destructive Examination methods to identify, quantify and monitor CUI.

These include real time and computed radiography, pulsed eddy current, thermography, long range UT and MOLE, an EM&I innovation specially designed with sub-miniature probes that can remove the need for expensive insulation removal.

This process allows for a complete and effective solution to the detection of CUI, which reduces reliance on traditional methods, saving time and money.



### The Benefits

- Rapid , low intrusive, low cost inspection of insulated vessels and piping
- Minimum number and size of access holes to determine the condition internally, and externally
- Proven 20–50% reduction in inspection costs compared with conventional and high tech methods
- Reduction of Persons on Board requirements by avoiding the need for an insulation team
- No insulation removal for initial inspection means a reduced corrosion threat as unnecessary insulation removal increases the likelihood of CUI
- Additional data for trending provides improved planning and integrity confidence
- Temperature and wall thickness data is used to calculate the corrosion rate so that accurate time to Minimum Allowable Wall Thickness (MAWT) can be predicted

### Track Record

We measure 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 who 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.



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