



## Inspection using BCT

### The Challenge

Managing the integrity of pressure systems with minimum intrusion is a key feature of effective asset integrity management. Corrosion under insulation, internal corrosion and other degradation mechanisms and multi-layered components create inspection challenges such as the need for shutdown and significant operational disruption.

### The Solution

EM&I offer a number of inspection solutions including digital radiography, specialised ultrasonic inspections, pulsed eddy current, SLOFEC and so forth.

However, a new and powerful tool is now available in the form of the Backscatter Computed Tomography (BCT) system. This is a 'single sided' radiographic system which essentially provides similar diagnostic cross section images as those provided by a medical CAT scan.

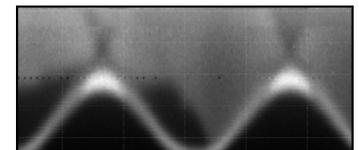
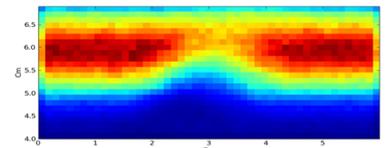
Developed by Inversa the INSIGHT™ system is capable of monitoring the condition of insulated pressure systems and is under development for other critical assets such as flexible risers, caissons, pipe-in-pipe and so forth, thus avoiding removal of insulation, PFP and so forth, enhancing safety, reducing costs and operational down time.

### The Benefits

INSIGHT™ compliments other inspection systems and the RBI strategies now considered industry best practice.

The ability to inspect through insulation and multi-layered components deliver the following benefits:

- Enhanced Safety
- Reduced inspection costs
- Reduced POB
- Reduced operational and production down time



### 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. The INSIGHT system is in current use on various projects including Oil & Gas plants.

### Credentials

Health & Safety – EM&I has an outstanding HSE record and has been granted the RoSPA President's Award in recognition of winning eleven consecutive RoSPA Occupational Health & Safety Gold Awards including five Gold Medals and numerous other international awards.

Other safety awards include IFAP Safe Way Safety Achievement Awards and the Leith Offshore Safety Award.

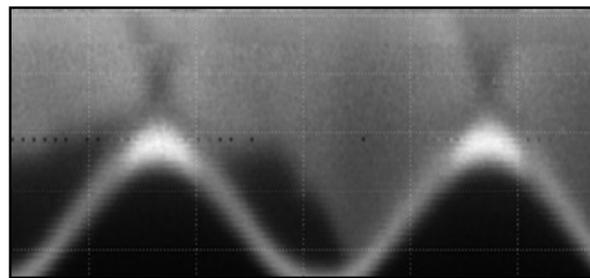
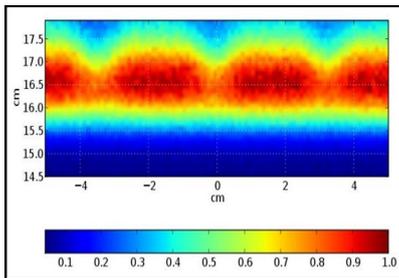
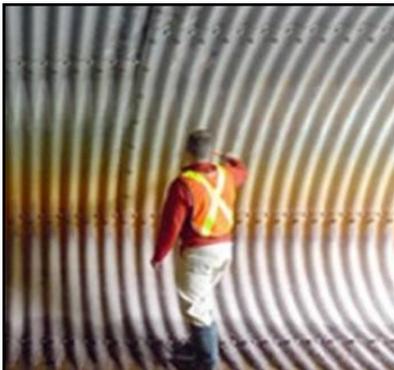
Quality – We assure quality through accredited ISO 9001 and ISO 17020 management systems and seek continuous improvement by measuring Client satisfaction through FPAL and regular Stewardship Reviews.

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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### 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](http://www.emialliance.com)

