



## FlareSafe™ System Integrity Services

Patent Pending. Please refer to [www.emialliance.com](http://www.emialliance.com) for patent information

### The Challenge

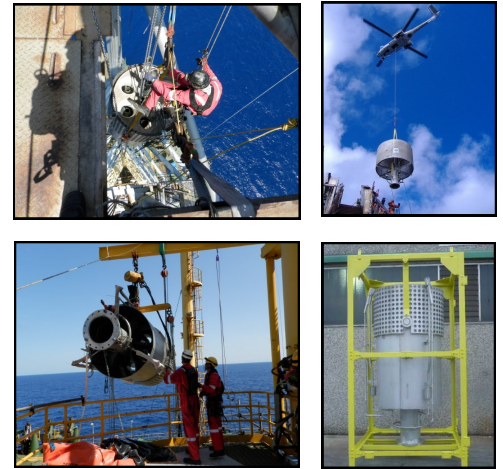
Flare systems deteriorate rapidly, particularly as gas pressures and flow rates reduce due to environmental flaring targets. Excessive heat damages the flare tips, associated structures and equipment. Remedial work can only be carried out during shutdown, bringing the risk of unplanned production loss if the work is not planned or carried out efficiently. Flare tip replacement on an FPSO brings its own specific problems because of movement at the top of the flare tower, making helicopter lifts difficult in all but the most benign conditions.

### The Solution

A complete FlareSafe package is available worldwide which includes:

EM&I have developed FlareSafe™ a system designed for floating installations which reduces shutdown time, safety risk and weather dependency. FlareSafe™ includes a specially designed cradle which stabilises and protects the flare tip throughout the whole process from transportation of new flare tips to site, installation and removal of old units. EM&I are world leaders in delivering flare system integrity services, with a proven track record supported by independent testimonials.

- Project Management
- Planning (engineering, health & safety and quality plans, project plans, rigging plans, CTRs and work packs)
- Site pre-visits and preparation
- Procurement
- Inspection, Repair & Maintenance
- Reinstatement of flare systems
- Close Out & Compliance Reporting



This scope can be applied to flare tips, pipework, structures, mechanical, electrical and instrumentation.

The services are delivered through strategically located operations centres, with further in-depth engineering and laboratory support.

### The Benefits

- Reduced HSE risk
- Reduced shutdown time
- Reduced POB
- Reduced project and weather risk
- Versatile methodology interfaces with crane, A-frame and helicopter lifts
- Reduced management effort through the EM&I one-stop-shop capability

The service scope includes developing detailed engineering plans, project plans and work packs, site inspection, rigging, removal of damaged components and installation / repair / re-instatement of new components.

### 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.

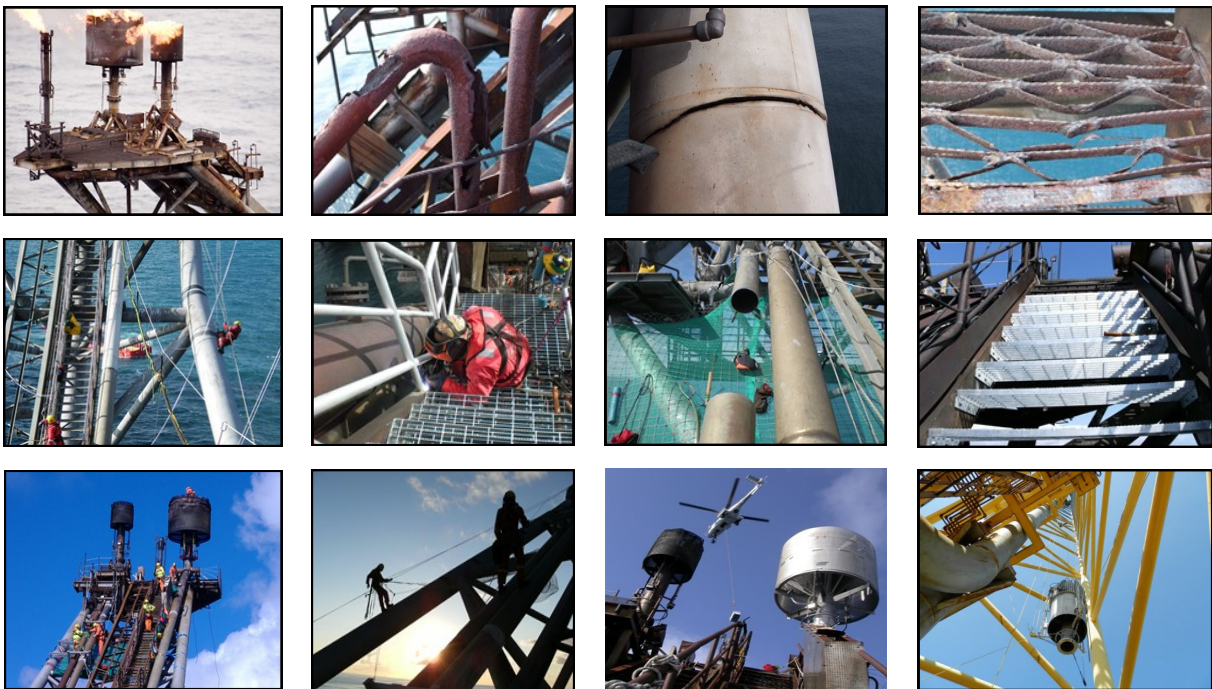
**Quality** – We assure quality through our ISO 9001, ISO 17020 and ISO 17025 accredited Quality Management Systems and seek continuous improvement by measuring Client satisfaction through FPAL and regular Stewardship Reviews.

**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.

## Flare System Integrity Services



### 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)

