

## Company History

EMIS is the trading name of Electrical Mechanical Instrument Services (UK) Limited, a service company whose core business is described as: Calibration, Repair and Management of Test and Process Instrumentation.

The company was formed in 1992 as a result of a management buyout by several of the current managers from the original parent company. The directors are shareholders and also form the core of the management team.

The calibration centre is based in Glasgow with offices in Aberdeen, Livingston and Middlesbrough and two joint venture companies in Qatar and Abu Dhabi. A distribution network throughout the UK exists. The laboratory holds accreditation from UKAS (United Kingdom Accreditation Service), ISO 9001:2000 and is also recognised as an Investor in People.

The extent of the UKAS accreditation is as follows:



- Electrical Calibration - dc & lf rf & microwave
- Pressure Calibration (air, hydraulic and differential)
- Temperature Calibration
- Acoustic Calibration (including site)

A physical capability consisting of dimensional and torque is also in place. A repair facility is operated in support of the calibration services, and a development of this has manifested itself in the form of Equipment Management.



0123  
Group



INVESTOR IN PEOPLE



*Accreditations held by EMIS*

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Also at:  
Aberdeen, Livingston, Middlesbrough, Qatar and Abu Dhabi

## Case detail:

This application study deals with the partnership formed by Shell and EMIS to cater for the test equipment requirements of the Shearwater Asset.

The project started when the platform was being built on Tyneside, through the commissioning and thereafter into the operations and maintenance phases of its lifecycle.

This is a 'cradle to grave' service being provided with benefits at each stage for the client.

**For more  
Information:  
Call:  
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**Instrument Calibration, Repair and Management**

## Application Study

Prepared by

**EMIS**

Project:

**Management of Test  
Equipment Inventory**



**Shell**

**Shearwater  
Asset**

# The Calibration and Management Specialists



*EMIS provide both onshore and offshore calibration of test equipment as well as stock and database management.*

## Customer benefits include:

- Technical assistance provided ensuring 'state of the art' equipment utilised
- No additional costs during the lifetime of the project
- Quality Management and Health & Safety requirements met in full
- No asset management input regarding test equipment
- No capital outlay
- Focus on core activities

## The Initial Brief

The Shearwater Asset required test equipment for all departments: metering, instrument and electrical. Discussions were opened with EMIS to find the best way to satisfy this need. EMIS attended the Tyneside site, where the platform was being built, to meet the senior engineers and discuss their measurement requirements. An itemised listing of test equipment was then prepared and options discussed with the Principal Maintenance Engineer. It was decided that rather than purchase the equipment it would be beneficial to have a long term rental agreement, with the brief to ensure that calibrated equipment was offshore at all times.

## The Model

A model was presented encompassing supply, calibration, repair and management of the entire inventory on behalf of the asset, with fixed costs over a term of five years. The fee included for the purchase and finance of the equipment, short term hires, annual calibration, a budget for repairs and a contingency for the purchase of future items of test equipment. A five year contract was then placed with a financial penalty mechanism should EMIS fail in their duty to have calibrated test equipment on the platform at all times. An option for the asset, to ensure that continuity is maintained, is to mobilise an EMIS technician to calibrate the majority of test equipment offshore.

## The Equipment

Calibrated equipment was delivered to the asset to enable the metering engineers to pre-commission various systems in the construction site. On completion, the equipment was returned to EMIS for safe custody until the platform was being commissioned in the North Sea. At this point all of instrument and electrical test equipment had been purchased, calibrated and was available for call-off as required. Currently, the platform has all test equipment offshore and the inventory is managed by EMIS by utilisation of an Access database, alerting the focal point of re-calibration and organising replacement items such that the asset will never be without calibrated test equipment.

## The Future

At the end of the term of the contract the ownership of all equipment will pass to the Asset. It is likely that a variation to contract will be issued to ensure that calibration, repair and management is continued, as well as consultancy, to take advantage of changes in technology. In summary, EMIS and the Shearwater Asset team developed a model whereby:

- There was no capital required to purchase test equipment
- Technical assistance was provided ensuring 'state of the art' test equipment is used
- Only one transaction cost in relation to the lifetime of the test equipment is required
- No additional costs will accrue



### Customers include:

*Shell Exploration,  
Amerada Hess, BP, British  
Gas, Kerr McGee,  
Talisman, NISL, KOGIL,  
Talisman, Rhomax, DMS,  
Schlumberger, EDS*

### For Additional Information Contact the following:

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