

Measurement *CARE*™

# A Case Study: Innovative Solutions in Operational Excellence



As a trusted partner with one of the world's largest oil and gas exploration and production companies, FMC Technologies has on-site personnel who ensure that its measurement systems operate at the highest level of reliability, technical integrity and accuracy. The scope of services include contract and reporting administration, planning and operations, and consultancy and engineering responsibilities.

## Personnel

65 highly trained engineers, metering technicians, consultants, contract managers and administrators work to manage this customer's measurement systems.



## Scope of Services

### Administration

- Requisition of Services
- Work registration
- Invoicing
- Payment problems resolution
- Subcontract management
- Monthly commercial reporting
- Monthly forecasting

### Planning and Operations

- Compliance delivery
- Work control systems
- Breakdown response
- Scheduling and planning
- Work preparation
- First technical line support
- SAP improvements
- Execution of field scope of work
- Test equipment management
- Spares management
- Monthly operational reporting

### Consultancy and Engineering

- Client reputation protection
- Technical measurement support
- Measurement management
- Audit support
- Management of audit actions
- Calibration verifications
- Metering philosophy development
- Procedure writing
- Calibration sheet design
- Engineering design review
- Customer collaboration
- Project support
- Quality assurance



## Types of Equipment Maintained

### Flow Computers

- S500's, S600's, Micro 5000's, Omni, Solartron 7915, 7955, 869m Instromet Fc500, Netoil, Daniels S103

### Primary and Secondary Devices

- Turbine Meters, Ultrasonic Meters, Orifice Meters, Coriolis Meters, Magflows, Multiphase Meters, V-Cone Meters, Annubars, Positive Displacement Meters, DP Transmitters, Temperature Transmitters, 3095 MV, Gas and Oil Density Transducers
- FMC, Micrometer, Yokogawa, Solartron, Foxboro, E+H, ABB, Krohne, Roar, Framo, Faure Herman, Brooks, Daniels, Rosemount, Peco, Heco, Micro Motion
- Meter Sizes: 1", 2", 3", 4", 5", 6", 8", 10", 12"

### Analyzers

- OIPW Analysers, WIO Analysers, RD Analysers, Pycnometers, Chromats, Dew Point Analyzers, H<sub>2</sub>S Analyzers
- Roxar, Daniels, Solartron, E+H, Siemens, Michell, Ametec

### Provers and Master Meters

- Dunlin, Osprey, Tern, Hudson, Cormorant Alpha, Cormorant North, Nelson, Anasuria, Gannet, Brent Charlie, Eider, Shearwater

### Sampling Systems

- Welker, Jiskoot

## Benefits to Customer

- Year over year reduction (>1% totals hours) of planned maintenance
- Overall improvement in audit findings
- Savings due to significant reduction in mismeasurement
- Significant reduction in maintenance backlog
- Detailed monthly reporting
- High levels of personnel stability
- Focus on training and development for personnel
- Development and implementation of a complete management system and infrastructure, including:
  - Operational infrastructure
  - Operating systems and procedures
  - Planning and scheduling tools
  - Work instructions
  - Calibration sheets
  - Mismeasurement management
  - Audit management



[www.fmctechnologies.com/MeasurementCARE](http://www.fmctechnologies.com/MeasurementCARE)

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