

# Mator News

05/2002

Provider of innovative consultancy services in **oil/water/gas separation technology** and **condition based maintenance technology** for the oilfield industry.

## Mator Operational Support –

how to increase productivity and regularity on a long term basis

**Innovative preventive and corrective operational support for both the Separation Process and Maintenance disciplines offshore.**

**Our solutions help maximize high quality production within ever tightening environmental demands at minimum operating cost.**

Mator has world wide experience within offshore **troubleshooting** and process **optimisation** for gas/oil/water separation. Within the maintenance discipline Mator is also a major supplier of lube and hydraulic **condition monitoring services**, having long term contracts covering 14 North Sea installations.

The key success criteria of our activities involves the collection of correct and timely information. We have found that periodical monitoring and inspection through offshore campaigns not only benefits troubleshooting tasks, but is vital in order to obtain long term optimisation benefits.

Reduced production losses, improved capacity and quality, thereby increased profitability and production reliability, begins with **field based operational support**.

**Mator field based operational support typically begins with.....**

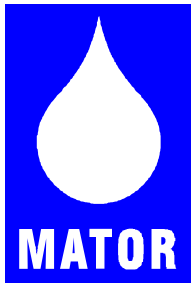
### Mapping:

- Field survey of the separation process and the production machinery in order to establish status of the condition.
- Evaluate the potential for periodic condition monitoring including cost/benefit analysis and specific content of the monitoring programme.

**and continues with a.....**

### Condition monitoring programme:

- Establish the monitoring data base including integration with the principals system, e.g. SAP, and with all required measuring methods, acceptance criterias, schedules, reporting, etc.
- Perform the condition monitoring including results interpretation, conclusions and recommendations as input to activity planning and optimisation work.
- Conduct training activities of involved personnel.
- Assist with follow-up and support to the operative staff, together with technical backing in connection with correction of condition deviations.



## Introducing PEM – Process Efficiency Monitoring

Mator recently completed a project for Phillips Petroleum, Norway, establishing a monitoring system used for troubleshooting and preventive actions of a gas/oil/water separation process. The system includes:

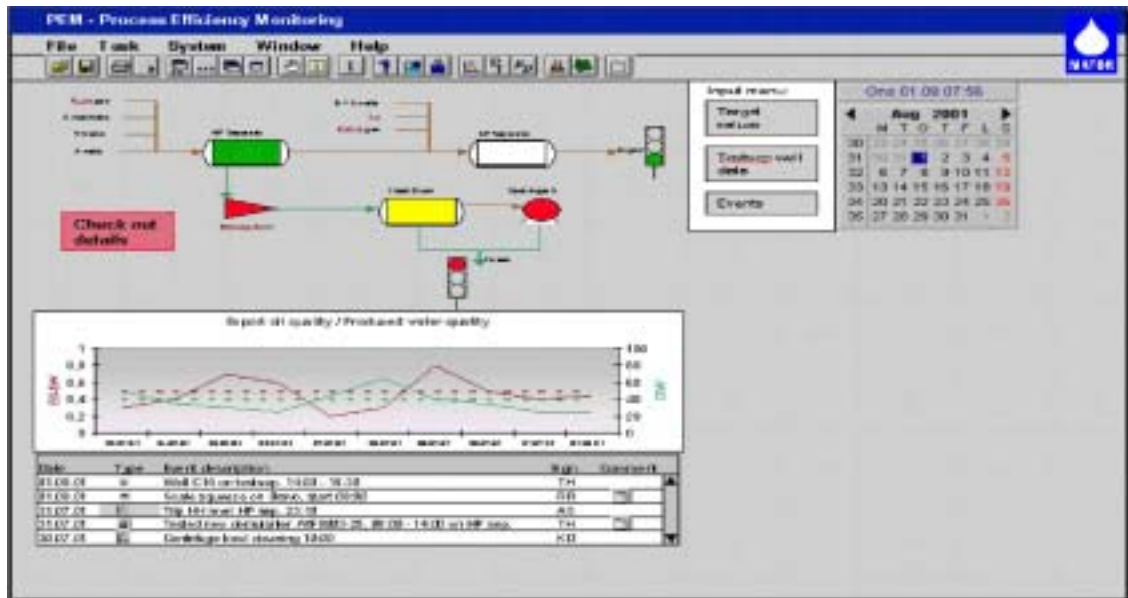
- Export quality
- Oil in Water discharge to sea
- Process parameters influencing:
  - HP separator
  - Hydrocyclones
  - Degasser
  - Centrifuges
- Specific operations and incidents

The monitoring system is based upon trend graphs of:

- Selected process tag numbers – dynamic and historic.
- Calculated process indicators – in order to compare different process parameters.
- Soft sensors – models for efficiency of separation stages/equipment.

The system collects process data from the existing data collecting system, PI (Plant Information), at the platform.

PEM has now been installed and made accessible for all Phillips Norway personnel for Phase 1 testing.



See you at ONS stand No. J1097 !

**Mator AS**

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