



TO INTEGRITY ... AND BEYOND



WWW.ACET.CO.UK

### ACET Around the World

In the third quarter of 2009 a further 29 users were ACET trained with courses being run in **Indonesia, Trinidad** and the **United Kingdom**. There are now a total of 926 trained ACET users in 24 different countries around the world.

With the addition of **SBM (Single Buoy Moorings)** in Monaco and **British Gas** in the UK, ACET is now being used in 24 different countries around the world by 44 different sites with a total of 163 assets including Refineries, On and Offshore Installations, FPSO's and Chemical Plants.

### Thank You

Gracias a Eduardo Muñoz, Integridad Mecánica, Americas Management Team Mexico whose assistance with the facilitation of ACET in South America has been invaluable.

### ACET Version Details

The latest ACET release version is ACET version 5.1.552 from 05/10/2009.

The current development version is 5.1.554.15

To upgrade your version of ACET please contact ACET Support [acet\\_support@oceanengineering.com](mailto:acet_support@oceanengineering.com)

Previous editions of the ACET newsletter can be viewed in the News Section of the ACET Website: [www.acet.co.uk](http://www.acet.co.uk)



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New Clients

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Client Updates

### Welcome to the October 2009 edition of the ACET newsletter.

The ACET Software system has been designed to form part of an integrated asset management approach through the storage, analysis and assessment of inspection and corrosion data within the global petrochemical industry.

## ACET NEWS

### TRAINING MANUAL

Version 4.5 of the ACET Training Manual is now available in **Spanish** and **Russian**. The translations were performed to meet the requirements of our clients in **South America, Kazakhstan, Azerbaijan** and **Georgia**.

### USER GUIDE

The ACET User Guide has been updated to include the latest version of the Monitoring Module and the Integrated Planning (IPM) Module. This completes the enhancements to the user guide for version 5.1 of ACET.

User Guide revision 2.2 for ACET version 5.1 is now available for use and can be viewed from the ACET system Help menu or downloaded from the ACET Helpdesk:

<http://acethelp.oceanengineering.com>

If you have forgotten your Helpdesk ID and password, please contact:

[acet\\_support@oceanengineering.com](mailto:acet_support@oceanengineering.com)

### NEW CLIENTS

In the 3 months since the July edition of the ACET News Letter the following clients have implemented the ACET system:

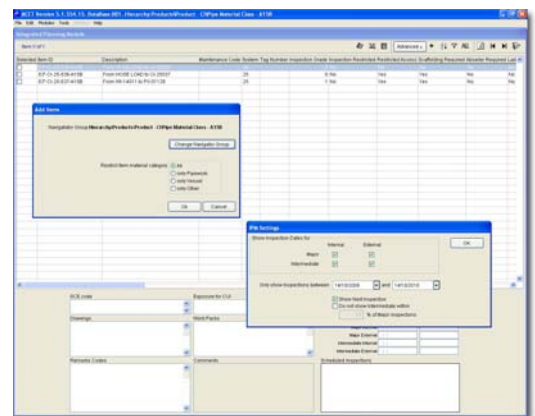
**Single Buoy Moorings Inc (SBM)**, with its operating offices in Monaco has purchased an ACET License for its global fleet of **Floating Production Storage and Offloading (FPSO)** units. SBM Offshore has a cumulative vessel operating experience of more than 160 years, during which in excess of 2,400,000,000 barrels of oil were exported.

The **BG-Group** has purchased an ACET License for use on the **Everest and Lomond** assets. Everest is situated in the central North Sea and first production began in 1993. An average production rate of 91 mmscfd and 2,783 bopd was achieved in 2008. Lomond is situated in the central North Sea and first

production began in 1993. An average production rate of 92 mmscfd and 1,702 bopd was achieved in 2008. In addition, production from the Erskine field is processed on the Lomond facility. Gas is exported via the CATS pipeline. Produced liquids go via Forties to Kinneil.

### LATEST RELEASE FUNCTIONALITY

The **Integrated Planning Module (IPM)** allows inspection dates, frequencies and other Core Module information to be exported to **Microsoft Project**. The IPM user interface has now been enhanced to meet user requested improvements. These changes have made the Integrated Planning Module more intuitive and faster to use.



### CLIENT UPDATES

In August an ACET representative visited **Trinidad** where he trained **Atlantic LNG** personnel working in the Point Fortin, LNG Plant.

In September an ACET representative visited **Indonesia** where he trained **BP** personnel working in support of the Tangguh LNG Project, which is centred on the Bintuni Bay area of Papua, Indonesia.

In October two ACET representatives travelled

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[www.oceanengineering.com](http://www.oceanengineering.com)

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to **Argentina** to provide training and development support to **Repsol YPF**. Training took place in Comodoro Rivadavia and Neuquen whilst SAP interface requirements were progressed in Buenos Aires.

**NEW DEVELOPMENTS**

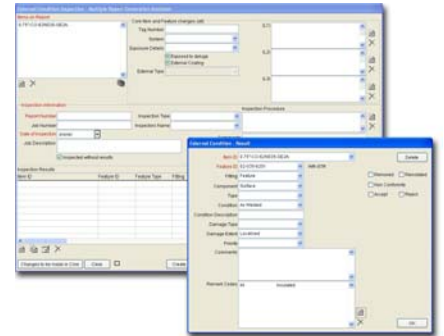
**RBA Report**

The new RBA Report allows the user to report on: Consequences, Confidence and Deteriorations with the worst case frequency or percentage of remaining life for the item or the specific Inspection Method as well as more in depth details on all the deterioration mechanisms regardless of the Frequency or % of Remaining Life. In addition the user can select the option to include a section listing all the attendees that performed the assessment.

RBA Qualitative Run Report		Asset Presentation Database SPC	OCEANEERING
(Basic Details)			
<b>Details</b>			
RBA User Reference:	00003 PFW08 MP	RBA No:	0811-02 (Posted)
		Assessment Date:	01/01/2008
<b>Description:</b> Corrosion Circuit 003 Pipework 2008 RBA			
<b>Group:</b>	Hierarchy: Corrosion Circuit/Corrosion Circuit - 00003	<b>Applied to:</b>	All
<b>Equipment Type:</b>	Pipework	<b>Output Level:</b>	Method
<b>Output Format:</b>	Frequency		
<b>Assessment Team:</b>	Typical Expert Team		
<b>Consequence Results</b>			
<b>Consequence Weighting:</b> Consequence Weighting		<b>Confidence Value:</b> 2	
<b>Consequence Value:</b> 2			
<b>Output Results</b>			
Overall Ray		Output: 60.0	months (Calc)
<b>Considerations</b>		Output	IE
ODD Corrosion	60	60	I
External Corrosion	60	60	E
Overall		Output: 48.0	months (Calc)
<b>Considerations</b>		Output	IE
Corrosion under Insulation	60	60	E
Ultrasonic		Output: 60.0	months (Calc)
<b>Considerations</b>		Output	IE
Bacterial Attack	72	72	I
Crystallisation	48	48	I
Erosion	60	60	I
External Condition		Output: 60.0	months (Calc)
<b>Considerations</b>		Output	IE
Internal Corrosion	60	60	I
<b>Assessment Conclusions</b>			
<b>General Considerations / Recommended Techniques</b>			
Overall, Overall Ray, Ultrasonic and External Condition.			
<b>Recommended Sampling</b>			
Inspect all items.			
<b>Mitigation</b>			
Areas in Focus Inspection			

**CLIENT DEVELOPMENTS**

BP in the UK commissioned the creation of an "assistant" tool within the **External Condition Inspection Module**. The tool allows External Condition Inspection Reports to be created in a manner aligned with BP's internal inspection processes, thus assisting the client with the capture of legacy inspection data within the ACET Inspections Module.



**ACET HELP DESK**

The ACET Help Desk system is a web based help/ticket system used in support of the ACET department suite of software products.

The Help Desk is available from the following web address: <http://acethelp.oceaneering.com>

To receive your ID and password please contact ACET Support: [acet\\_support@oceaneering.com](mailto:acet_support@oceaneering.com)

Tel +44 (0) 1224 758500

**OCEANEERING NEWS**

**Oceaneering Inspection Management Azerbaijan**

In June 2009 Oceaneering were awarded a corrosion and inspection management services contract from BP Exploration (Caspian Sea) Ltd. (BP) with estimated revenue of approximately \$45 million over an initial three-year term. At the end of the initial term, BP has two consecutive options to extend the contract for a period of one year each.

The assets covered by the contract include BP's onshore Sangachal Terminal and offshore production facilities in Azerbaijan, and export pipelines in both Azerbaijan and Georgia. This contract builds on an existing relationship with BP Exploration Operating Company Ltd. to provide inspection and integrity management services on its facilities in the United Kingdom.

For further information on Oceaneering Operations please contact Martin Hockley, Marketing Manager: [mhockley@oceaneering.com](mailto:mhockley@oceaneering.com)

**Design Codes**

Several of our overseas clients have requested additional Design Codes be added to ACET. These include additional ASME Div 1 and 2 Vessel codes, GOST Vessel codes and the RP1111 pipeline code.

Vessel to GOST 14249-80, 2.3.1.1 [int] - Cylindrical Shell

Calculation Code: Vessel to GOST 14249-80, 2.3.1.1 [int]  
 Description: Cylindrical Shell [int]  
 Comments:  
 Design Code: GOST  
 Material: Vessel

Max Pressure Calculation:

$$P = \left( \frac{2ES_t}{d_i} \right) / \left( 1 + \frac{t}{d_i} \right)$$

Oceaneering is an advanced applied technology company that provides engineering services and hardware to customers who operate in marine, space, and other harsh environments.

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