



TO INTEGRITY ... AND BEYOND



WWW.ACET.CO.UK



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Client Updates

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Latest Release Functionality

ACET Around the World

In the fourth quarter of 2010 a further 34 users were ACET trained with courses being run in the **UK**, **Dubai** and **Vietnam**. There are now a total of 1,088 trained ACET users in 26 different countries around the world.

ACET is now being used in 26 different countries around the world by 47 different sites with a total of 169 assets including Refineries, On and Offshore Installations, FPSOs and Chemical Plants.

Congratulations to Eldaniz Islamov who has become the 1,050th trained ACET user. Eldaniz is based in Baku, Azerbaijan where he works as a Senior Corrosion Technician with Oceaneering, providing Integrity and Inspection Management Services to BP in the Caspian and Georgia.

ACET Department Expands

The ACET department are in the process of adding a new support resource to replace Genevieve Davis who has been promoted into a full time development role. The department now employs 12 people including a department manager, a lead engineer, six developers, three support administrators and a technical author.

ACET Version Details

The latest ACET release version is ACET version **5.2.583.19** from 28/12/2010
The current test version is 5.2.585.19

To upgrade your version of ACET please contact ACET Support acet_support@oceanengineering.com

Previous issues of the ACET newsletter can be viewed in the News Section of the ACET Website: www.acet.co.uk

Welcome to the January 2011 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

TECHNOLOGY SNAPSHOT – OPEN DAY

The 19th of January saw 78 willing and eager engineers representing BP, Nexen, BG, Petrofac, Chevron, Britannia and Shell file past the latest "snapshot" of technologies from the Specialist Inspection Services and ACET departments of Oceaneering Inspection.

The new Olympus Epoch XT gauge interface, was demonstrated, with ACET generating an electronic work-pack as an XML file, which was transferred to the XT gauge (via a USB Key). An inspection was then performed and the data and information loaded back onto the USB key for transfer back into ACET for storage and analyses.

Also on show were Direct and Computed Radiography (shown on flexible risers), Phased Array application on RF, RTJ and Grayloc hubs, low profile PA on smallbore welds and axial rapid corrosion mapping. A special Eddy Current system was also on display for identifying sealing ring material in grayloc hubs online.

LATEST RELEASE FUNCTIONALITY

ACET Version 5.2.583.19 was released in December 2010 with updates to the following modules and functionality:

New tabular format on the **Security Settings** screen, Additional fields added to the **Group Designer** for increased search capabilities, Additional function added to the **Inspector Excel Interface** worksheet styles, **Gauge Interface** is now compatible with the EPOCH XT flaw detector, An external document can be attached to an RBA, Improved validation information for the **Data Import** module, Eddy Current fields added to the **Data Export** module.

ACET INSPECTION ANALYSIS PHASE II

To enhance data analysis, the Graphical and Method Trend components of the Inspection Analyses

module are being expanded to accommodate additional WT based inspection methods.

Eddy Current, Tube Bundle, Gamma and X-Ray methods are being added to UT and will allow generation of trend graphs and graphical representations for these methods.

Each Inspection method will trend readings to retiral date using (when available) Item and Feature User, Method Present, Method Historic, Circuit, Loop, Stratum, Coupon and Probe corrosion rates.

The client will have the ability to define their specific precedence philosophy for retiral date calculations for both item and individual inspection methods levels using a combination of particular method + corrosion rate, earliest for a method, earliest for a corrosion rate or earliest of all retivals.

Item	Feature	Material	Results	Drawings	Inspections	Streams	Executions	Corrosion Rates	Retiral Dates	Records
Inspection City (units)										
Material										
Method										
Present CR										
Historic CR										
Coupons										
# of Coupons Results										
Highest Max CR										
Highest Max PE Rate										
Max Recent CR										
Max Recent PE Rate										
Probes										
# of Probe Results										
Highest Max CR										
Max Recent CR										
Global CR Percent										
Max User										
Min										
Max Stratum										
Source Feature: 03										
Source Point: 1										
(Tube Bundle CRs are not considered for identification)										
Design Name: 10010202										
Max CR for Lowest UT: 275.838										

CLIENT UPDATES

In November and December ACET representatives visited **CLJOC** and **BP** in **Vietnam** and **BP Oman** in **Dubai** to perform ACET Training of client personnel.

In January an ACET representative visited **Brazil** for a series of meetings with **Petrobras** to discuss and clarify Risk Assessment and Customisation requirements, platform P-62 data transfer to ACET, a new contract amendment number 3, and phase III of their SAP interface.

Single Buoy Moorings Inc (SBM) have extended their ACET License to include the **FPSO**

For more information on ACET and any of Oceaneering's services visit

www.oceanengineering.com



To subscribe to the ACET News Letter please send your email address to ACET Support acet_support@oceanengineering.com

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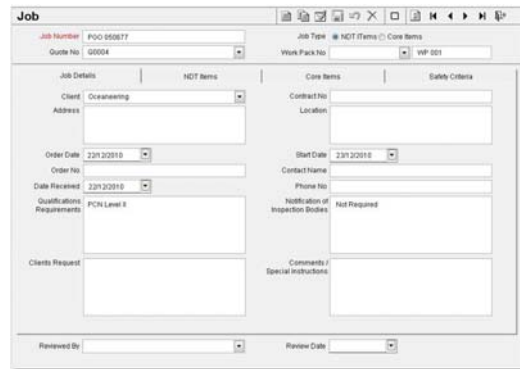


BP Global Contract
 Exceptions Enhancements
 Client Updates
 Group Editing Wizard

Aseng. The FPSO will be located in approximately 1,000 metres of water in Block I, offshore Equatorial Guinea. The FPSO, will serve not only the Aseng field, but also establish a liquids hub for future developments in the area with capacity for 120,000 barrels of liquids per day, including processing of 80,000 barrels of oil and injection of up to 150,000 barrels per day of water, as well as handling 170 million standard cubic feet per day of gas. The unit will have storage capacity for 1.6 million barrels of oil including up to 500,000 barrels of condensate.

ACET NDT TRACKING

NDT related modules are in the process of being developed for ACET. This will allow NDT departments to electronically track their **inspection service**. The new modules allow customer quotations to be recorded and NDT Jobs to be recorded.



There will also be NDT Specific methods added for Radiographic, Ultrasonic, Magnetic Particle, Liquid Penetrant, Eddy Current and General Inspections. A new suite of Reports based on the above areas are also being developed.

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.oceanneering.com>

To receive your ID and password please contact ACET Support:
acet_support@oceanneering.com

Tel +44 (0) 1224 758500

OCEANNEERING NEWS

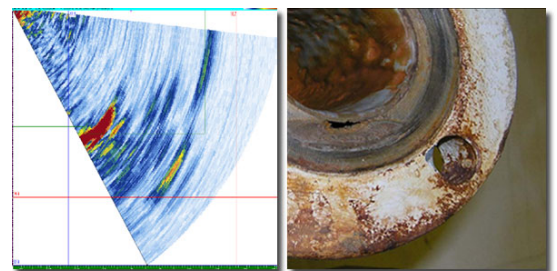
Flange Face Inspection gets the "seal" of approval from BP

As covered in the March edition of the Oceanneering "Inspection Standard", the Specialist Inspection Department based in Swansea has developed a Phased Array Ultrasonic technique (PAUT) to assess the condition of flanged joints whilst in-service.

ESR Technology designed and hosted a blind trial for BP to validate the Oceanneering PA technique to justify its wider application to flanges on all BP assets. Simulated corrosion defects were introduced into twelve new ring type joint (RTJ) flanges (2 and 3 inch nominal bore (NB)) and twenty new raised face (RF) flanges (2 to 6 inch NB). These specimens were supplemented by 10 ex-service RF flanges.

The trials produced results that were double the production rate of trials on average, combined with a maximum 98% PoD in certain joint sizes. Subsequent on-site trials have proven to be equally important towards technique validation. Inspection campaigns have been completed in Murco refinery and the BP Clair platform with 100% validated success. All flanges that were inspected were subsequently split, with all results being confirmed.

This new service provides Oceanneering a significant opportunity and demonstrates our commitment to our clients to provide innovative solutions to perennial integrity problems. Combining new techniques with established advanced NDT techniques perfectly supports the Risk Based approach to plant integrity where there are obvious cost savings and improved safety by encouraging Non-Intrusive Inspection in lieu of process shutdown and Internal Visual Inspection.



Phased Array scan showing corrosion during on-site trials

For further information on Oceanneering Operations please contact Martin Hockley, Marketing Manager:
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Oceanneering is an advanced applied technology company that provides engineering services and hardware to customers who operate in marine, space, and other harsh environments.

For more information on ACET and any of Oceanneering's services visit

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