Implementing an effective facility integrity strategy to reduce the risk associated with downtime and to get the best out of your offshore facility

Achieving positive oil and gas production rate depends highly on the condition of the platform facilities. It’s essential to master techniques on facility integrity management to avoid unplanned shutdowns and to extend the equipment life-cycle.

Your Distinguished Chairpersons:
Mike Howell
Head Of Inspection PS2/PS3, Operations Engineering (Offshore Fields)
Qatar Petroleum, Qatar
Soliman Khalaf
Head of Integrity Engineering
RasGas, Qatar

Featuring International Presentations By:
Gordon McCulloch
Principal C&A Engineer
Shell UMP, UK
D K Mane
Head Health, Safety, Security and Environment
Bharat Petroleum Corporation Limited -India

Featuring Expert Presentations By:
Dr. Eng. Mohamed Essam Kandil
Operation Projects Expert and General Manager
GUPCO, Egypt
Tarek Awad
MSc., Senior Technical Analyst
SEGAS, Egypt
Anton De Vos
Operational Excellence Lead and Project Manager
Shell, Qatar
Rodwan Bashar
Head Reliability Engineering
ADGAS, UAE
Jassim Alhor
Lead Engineer, Engineering (Offshore)
Qatar Petroleum, Qatar
Abdul Fatah Hassan
Project Manager
ZADCO, UAE
Jose Zurita
Head of Maintenance
ADGAS, UAE

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“It’s a well arranged conference which brings many experts together”
ADMA – OPCO
“Successfully bringing together the heads of top organisations in the oil and gas industry in a single platform”
TOPAZ ENERGY & MARINE

Key benefits of attending are:

- Attaining platform life-cycle extension through effective integrity management of ageing facility
- Enhancing the offshore facility integrity to ensure the safety of the operations
- Implementing effective inspection and maintenance programmes based on equipment criticality
- Mitigating internal and external corrosion to reduce the risk of failure and downtime
- Analysing the offshore safety issues to ensure the safety standards are achieved
- Examining the various strategies required to ensure that the integrity and the reliability of pipelines

*Early Bird & Group Discounts
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0800 Registration and morning coffee

0830 Opening and welcome remarks from the Chairperson
Mike Howell Head Of Inspection PS2/PS3, Operations Engineering
Qatar Petroleum

0845 Session One – Case study
Strategising Asset Integrity Management (AIM) plan to enhance operations and maximise ROI in offshore facility
- Evaluating the current AIM status to make better decision for further AIM improvements
- Involving operation, inspection and maintenance staff to obtain high level offshore integrity
- Delivering effective AIM strategy by monitoring asset condition to diagnose severe damages
- Achieving asset integrity excellence to minimise cost and eliminate downtime risks
- Monitoring facility reliability and integrity to avoid costly unplanned shutdowns
Dr. Eng. Mohamed Essam Kandil Operation Projects Expert and General Manager
GUPCO

0930 Session Two – Case study
Managing the aging offshore topside facilities effectively to extend the life-cycle of the offshore facilities
- Utilising various effective programmes to prolong the facility life-cycle
- Adopting effective aging facility monitoring techniques to assess operational condition
- Sustaining aging facilities integrity to eliminate potential breakdowns
- Investigating various failure mechanisms to minimise the risk of static facility failure
Mike Howell Head Of Inspection PS2/PS3, Operations Engineering
Qatar Petroleum

0915 Morning refreshments and networking break

1030 Session Three – Extended Session
Establishing facility corrosion management to mitigate corrosion in offshore platforms
Offshore oil and gas platforms are subjected to hostile, corrosive, marine environments and require continuous preventive maintenance to ensure prolonged and safe operation. It is estimated that 20% of the corrosion cost can be prevented if the right corrosion control methods are applied to assure effective corrosion inspection and mitigation.
This session aims to provide technical solutions for cost efficient and effective corrosion management methods. A best practice of implementing corrosion inhibitors such as coating and cathodic protection will be shared with the delegates to maximise the integrity level of the offshore facility.
- Advising the best corrosion mitigation methods to enhance facility integrity
- Determining corrosion causes in offshore platforms to minimise the impact on topside equipments
- Highlighting an effective corrosion inspection for better corrosion management
- Determining the thickness of platform structure to calculate the corrosion rate and gauge the platform reliability
- Design perspective: Selecting the right material to assure corrosion resistivity and cost effectiveness of the selected material
Dr. Paul Rostron PhD, MRSC, MICorr, Departments of Chemistry and Chemical Engineering
The Petroleum Institute, Abu Dhabi

1100 Session Four – Case study
Developing a robust Risk Based Inspection (RBI) plan to mitigate risks associated with downtime
- Implementing RBI to plan for an effective inspection scheduling
- Establishing inspection database for better inspection efficiency
- Fortifying facility integrity through solid inspection performance, maintenance and redesign planning
- Calculating the impact of RBI programme by evaluating the current RBI effectiveness on facility integrity
Anton De Vos Operational Excellence Lead and Project Manager
Shell

1200 Networking luncheon

1215 Session Five – Case study
Managing the aging offshore topside facilities effectively to extend the life-cycle of the offshore facilities
- Acquiring accurate maintenance information for a better maintenance decision making to ensure reliable operations of the offshore facility
- Recording maintenance activity data to keep proper track record of current maintenance activities for better maintenance planning and scheduling
- Implementing effective maintenance programmes to prolong the facility life-cycle
Gordon McCulloch Principal C&A Engineer
Shell UMP

1345 Afternoon refreshments

1400 Session Six – International Case study
Performing Reliability Centred Maintenance (RCM) to achieve significant integrity improvements on offshore facility
- RCM analysis: Classifying maintenance tasks to avoid facility failure
- Characterising new RCM approach to assure high platform availability and reliability
- Developing a well established RCM framework to efficiently reduce maintenance cost
- Executing a successful RCM regime to attain the safe minimum standards of maintenance
Jose Zurita Head of Maintenance
ADGAS

1500 Session Seven – Case study
Optimising inspection and maintenance performance based on facility criticality and cost effectiveness
- Assessing unmitigated risk to design an effective inspection and maintenance strategy
- Reinforcing a strong inspection and maintenance strategy on critical facility to minimise unplanned shutdowns possibility
- Enhancing facility integrity and reducing cost by performing various maintenance routines
- Reducing inspection cost by prolonging inspection intervals and eliminating unnecessary inspection while obtaining facility integrity
Abdul Fatah Hassan Project Manager
ZADCO

1630 Closing remarks from the chairperson and end of day one
Day 2

Monday 19th September 2011

0800 Registration and morning coffee

0830 Opening and welcome remarks from the Chairperson
Soliman Khalaf Head of Integrity Engineering
RsGas

0845 Session One – Case study
Evaluating the structural integrity of offshore platforms after boat impact to minimise the risk of structural failure
- Establishing a methodology for conducting a global assessment of the structure to maximise the effectiveness of the assessment
- Examining the extent of damage to the structure to design a cost efficient maintenance plan
- Assessing the current condition of the structure to assure operational safety
- Recommending damage remedial measures to enhance the integrity of the platform structure
Jassim Alhor Lead Engineer, Engineering (Offshore)
Qatar Petroleum

0930 Session Two – Case study
Measuring and reporting facility integrity compliance to assess the feasibility of current facility integrity management
- Investigating significant Key Performance Indicators (KPIs) to measure facility integrity compliance
- Utilising information technology tools to measure and report facility integrity compliance
- Determining the key factors of compliance measurements: What to measure against what?
- Auditing KPIs compliance to determine the failure stage of measuring and reporting compliance
Rodwan Bashar Head Reliability Engineering
ADGAS

1015 Morning refreshments and networking break

1030 Session Three – Case study
Investigating the use of some organic amines formulations as biocide, corrosion and scale inhibitors in Abu Qir fire fighting facilities
- Utilising various laboratory techniques such as electrochemical techniques and serial dilution method to evaluate the efficiency of individual components effectively
- Corrosion inhibitor, biocide and scale inhibitor: Formulating a multipurpose chemical blend using structural compatibility matrix.
- Case study: Examining field trial to evaluate the achieved multipurpose formulation package within Abu Qir oil refinery’s fire fighting loop
- Techno feasibility study: Comparing the achieved new product versus market available ones to assess the cost feasibility
Tarek Awad MSc., Senior Technical Analyst
SEGAS

1115 Session Four – International case study
Leveraging workplace health and human error challenges in asset integrity management for risk mitigations at offshore platforms
- Acknowledging the reality: Workplace health as a centre of gravity for dealings in areas of HSSE programmes
- Accessing the realm of commonly occurred human errors at workplaces to identify root causes at offshore platforms
- Involving ‘Total People Side’ at platform scenarios to boost workplace safety and achieve efficient facility management
- Banking on people performance and site discipline: Irrespective of class, category, role holder status in building the unique HSSE culture on the premise of ‘one for all – all for one’ as a shared value at offshore sites
- Case Study: Sharing the lessons learned: Bharat Petroleum at oil and gas terminals leading to ripple effects as people driven agenda for sustainable HSSE culture at workplaces and beyond
D K Mane Head Health, Safety, Security & Environment
Bharat Petroleum Corporation Limited

1200 Networking luncheon

1315 Half-day workshop
Pipeline Integrity Management: Maximising the economic value of the platforms by optimally designing, maintaining, operating and decommissioning
Mitigating risk associated with pipeline operations: Risk identification and assessment in the pipeline model
- Detecting pipeline operational risk to minimise the likelihood of pipeline failures
- Determining risk assessment tools to analyse the threat and its initiators affecting on pipeline integrity
- Exploring risk matrix mathematical model to determine the severity of risk through risk assessment process
- Outlining risk control measure and KPIs to reduce pipeline accidents

Roadmap to pipeline integrity excellence: Identifying various strategies required to ensure the integrity and reliability of pipelines throughout the entire life cycle from design through decommissioning
- Focusing on pipeline life extension measures to reduce the cost of replacing the aging pipelines
- Maintaining the integrity of pipeline for continuous safe and efficient operations
- Addressing Remnant Life Assessment (RLA) methodology to gauge its benefits and limitations
- Recognising Root Cause Analysis (RCA) as an essential element of pipeline integrity management procedure
- Sharing the latest codes, standards and operating instructions for safe pipeline operations

Performing strategic pipeline inspection to attain cost efficient and reliable pipeline management
- Investigating the key factors of pipeline inspection to determine the critical elements of pipeline operations
- Applying Risk Based Inspection (RBI) to maximise pipeline inspection effectiveness
- Addressing the latest pipeline inspection tools that are cost efficient and effective
  - Gauging
  - Magnetic Flux Leakage (MFL)
  - Ultrasonic
  - Eddy current
  - Geodetic

Computerising integrity management: Pipeline data base development and customisation
- Providing accurate pipeline integrity status through enhanced data acquisition, migration and verification
- Simplifying pipeline integrity management using data management system
- Predictive Modelling Software: Creating a statistical model for future pipeline integrity management
- Softwares and market potentials: Optimising pipeline integrity management using the latest softwares and innovations
Abdul Aziz M. Salah Eldin Former Operations and Asset Integrity Advisor
ADMA OPCO
Quality Management and Integrity Consultant
Hudson Technology & Strategic Studies

1630 Closing remarks from the Chairperson and end of day two

About your workshop facilitator:
Mr. Abdul Aziz has 30 years experience in upstream and downstream oil and gas projects management and operation interface. Experiences include integrity management of pipelines, topside facilities and subsurface equipment. He has a good contribution into the development of assets integrity, corrosion management strategies and Philosophies for many major international operators.
He worked for many leading engineering houses, major oil and gas producers and QA/QC focused organisations including BP, Amoco, GUPCO, ENPI, Oceanareening, Geismar Oil Company and many others. During his carrier, he presented 44 technical papers as author in many international and regional conferences. He also developed over 85 technical specifications and manuals in the field of Corrosion Non Metallic materials, production chemistry and integrity management.
He has been a project manager and team member for over 30 major integrity management audit and competency analysis projects in association with leading service providers. Till very recent, Abdul Aziz was the Operation and Integrity Advisor for Abu Dhabi Marine Operating Company ADMA-OPCO. Currently he is the Managing Director of Hudson Technology and Strategic Studies Ottawa-Canada. He develops and conducts training courses in Assets Integrity management, Corrosion Management and Fundamentals of Coatings and Non Metallic materials.
Why you cannot miss this event

The demand for new energy resources has been the catalyst for oil and gas companies to aggressively look for offshore opportunity to produce oil and gas to meet the global needs. Therefore the oil and gas production in the Middle East has been progressively increased from 9 MMboe/d in 2008 to 13 MMboe/d in 2011. Offshore facility integrity management has always been of utmost priority to all oil and gas companies, due to the harsh operating environment and increasingly aging nature of assets. In the absence of sufficient understanding on the importance of effective asset integrity strategy, oil and gas companies miss the opportunity to minimise cost, achieve positive production rate and maximise ROI.

Offshore Facility Integrity Management conference brings together professionals and experts to equip the participants with practical experience, knowledge and hands-on information on integrity management. A wide range of case studies will be presented and shared at the conference such as equipment inspection strategies based on equipment criticality, effective corrosion management to reduce the risk of failure and strategic integrity management of ageing facility.

A half-day workshop will be facilitated on pipeline integrity management to provide solutions for pipeline failure due to ageing coating and aggressive environment by applying effective inspection strategies and risk mitigation methods.

Who should attend

Vice Presidents, Directors, Chiefs, Senior Managers, Managers, Engineers and Heads of:
- Asset Integrity
- Inspection
- Mechanical
- Corrosion
- Strategic Planning and Development
- Project Management

From all industries especially:
- Oil and gas
- Asset integrity management
- Oil and gas engineering services
- Offshore integrity management
- Oil and gas contractor

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If you have a number of delegates with similar training needs, then you may wish to consider having an In-House Training solution delivered locally on-site. Course can be tailored to specific requirements.

Please contact Sarah Faradilla on +603 2723 6600 or email sarahf@marcusevanskl.com to discuss further possibilities.

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Gulf Industry has now established itself as a “must-read” publication for anyone with an involvement in the region’s industrial sector whether as manufacturers, distributors or related service organisations. The publication represents a “window” into the Gulf’s manufacturing trading and export sectors providing news, views analysis and information across virtually every industry related sector. Each edition of Gulf Industry, which after 15 years is still the only comprehensive industry journal in the area, focuses on issues that are of vital interest to industrialists, factory managers and major exporters and importers of industrial products in the region and throughout the world. The online edition, which is integrated into TradeArabia, the Middle East’s leading business information portal, provides worldwide access to the most authoritative industry related information for the Gulf region.

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marcus evans would like to thank everyone who has helped with the research and organisation of this event, particularly the speakers and their staff for their support and commitment.
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