



LIMITING EROSION IN PRODUCTION SYSTEMS

A ONE-DAY SEMINAR

Wednesday 27th November 2002
Hilton Aberdeen Treetops,
ABERDEEN

Organised by: NEL

In association with the Health & Safety
Executive, Offshore Division

INTRODUCTION

This new one-day event is organised by NEL in association with the Health & Safety Executive. It will address operational and safety issues associated with sand erosion damage and wear in oil and gas production systems.

Sand is an inevitable by-product in the operation of oil & gas production systems. It causes erosion and abrasion in pipework components, interferes with the operation of equipment and generates major additional costs for operators. As existing fields age and increasing numbers of unconsolidated reservoirs and marginal fields are exploited, sand management and erosion is becoming an increasingly important issue.

SEMINAR OBJECTIVES

The seminar is aimed at gaining a better understanding of the many factors that influence erosion, together with some of the techniques that can be used to control or limit erosion and maintain production safely. The importance that Offshore Division of HSE attaches to the event is demonstrated by their association with the event.

The seminar will address issues associated with the design and operation of oil and gas production piping and equipment in erosive conditions.

TOPICS AND THEMES

Operational experiences and examples of erosion in the field are a major part of the seminar and they also illustrate how complex some erosion scenarios are to predict.

The technical program will discuss and review these erosion issues. It will be presented by leading experts and representatives from operators, service companies, government departments, universities and contract research organisations. Topics will include:

- Investigation of erosive failures in pipework systems
- Erosion from an HSE perspective
- Overview of hydrocarbon release incidents due to erosion
- Operating field experiences and case studies
- Sand management strategies and techniques for erosion control
- Sand monitoring techniques

WHO SHOULD ATTEND

The event is designed for those who are concerned with operating sand management systems for oil & gas installations, as well as personnel involved with the safe design, operation and maintenance of oil and gas piping and production systems, to avoid erosion problems. It is aimed at:

- Corrosion engineers
- Process engineers
- Sand management managers
- Design & piping engineers
- Health & Safety representatives
- Completion engineers
- Asset integrity managers
- Sand monitor suppliers
- Verification and compliance organisations

SEMINAR FEES

The registration fee for the seminar is £345 + VAT. This amount covers the delegate fee, lunch, refreshments and documentation comprising a bound set of all papers presented. Accommodation is not included in the fee.

EXHIBITION OPPORTUNITIES

There will be space available for your company to exhibit at this seminar. For further information please contact Susan Tough (see details on the back page)

ADDITIONAL INFORMATION:

The NEL seminar will be held the day before the UKOOA/ HSE – Offshore Hydrocarbon Releases Seminar, Aberdeen. Further details/ registration from www.hulse-rodger.com

NEL

NEL is one of Europe's leading engineering technology services organisations. We have an international reputation in key engineering areas; a world class profile based on 50 years of solid achievement and experience.

We have extensive experience of testing components in erosive and abrasive flows, computational and empirical erosion analysis, failure analysis and design for erosive environments.

For further details on how NEL can help your business, please visit our website: www.nel.uk or see contact details on the back page.

HSE

The Health and Safety Executive (HSE) is the UK regulatory authority responsible for, among other things, enforcing health, safety and welfare legislation in industrial workplaces. The Offshore Division, which is part of the Hazardous Installations Directorate (HID) of HSE, ensures that risks to people who work offshore in the upstream petroleum industry and in the whole of the diving industry, both offshore and inland, are properly controlled. It does this through a programme of inspection, assessment, investigation, enforcement, advice and education. For further details please visit our web site: www.hse.gov.uk

Wednesday 27th November 2002

- 08:50 – 09:20 **Registration and Coffee/Exhibition**
- 09:20 – 09:30 **Welcome and Chairman's Introduction.**
Professor Michael Baker, Aberdeen University
- 09:30 – 09:45 **Erosive Failure of an Elbow on the Lehman BT Platform: Overview**
Bryan Ridd, Shell Expro
- 09:45 – 10:15 **Erosive Failure of an Elbow on the Lehman BT Platform: Investigation**
Neil Barton, NEL;
Raman Patel, Offshore Division, HSE
- 10:15 – 10:45 **The Impact of Sand Erosion on Hydrocarbon Release Incidents in the UK Offshore Industry**
Stacy Nelson, Michael Baker, William Deans, University of Aberdeen;
Raman Patel, Offshore Division, HSE
- 10:45 – 10:55 **Discussion of presentations**
- 10:55 – 11:15 **Coffee/Exhibition**
- 11:15 – 11:45 **Erosion: Legislation & HSE Expectations**
Stephen Murray & Raman Patel, Offshore Division, HSE
- 11:45 – 12:15 **Sand Management: Predicting and Avoiding Sand Production**
Andrew Acock, Schlumberger Ltd
- 12:15 – 12:45 **Why is Quantifying Sand So Difficult?**
Tim Lockett, AEA Technology;
Angeli Gyani, BP Ltd
- 12:45 – 13:05 **Discussion of presentations**
- 13:05 – 13:50 **Lunch/Exhibition**
- 13:50 – 14:20 **Britannia Field - Sand Monitoring Systems Experiences**
Greg Jones, Britannia Operator Ltd
- 14:20 – 14:50 **Erosion Management on Schiehallion & Magnus- Erosion Modelling and Operating Experiences**
Colin Deddiss, Derek Watson, Catriona Smith & Edwin Smith, BP Ltd
- 14:50 – 15:00 **Discussion of presentations**
- 15:00 – 15:20 **Coffee/Exhibition**
- 15:20 – 15:50 **ConocoPhillips SNS Sand Management Strategy**
Brian Gordon, Walter Martin, Conoco Phillips;
Fraser Selfridge, Martin Munday & Oddmund Kvernfold, DNV
- 15:50 – 16:20 **The Role of the ITF: New and Innovative Technology for Sand Detection**
Richard Tanner, The Industry Technology Facilitator (ITF)
- 16:20 – 16:35 **Discussion of presentations**
- 16:35 – 16:55 **Open discussion**
- 16:55 – 17:00 **Close of seminar**

Booking Form

LIMITING EROSION IN PRODUCTION SYSTEMS Wednesday 27th November 2002

Full name (inc. title).....
Preferred name for badge.....
Job title.....
Company.....
Address.....
.....Post code.....
Telephone.....Fax.....E-mail.....

We expect the event to be heavily subscribed. Places are strictly limited and are allocated on a first come, first served basis. Your place will be confirmed on receipt of a booking form. Payment must be received before the event date. Under UK excise regulations all delegates are required to pay VAT at 17.5% on any conference/course taking place in the UK.

Method of Payment

- Delegate rate: £345 + VAT
- Invoice to company named above
- Cheque, made payable to TUV NEL Ltd, enclosed with this form
- Bank transfer to National Westminster Bank Plc, East Solent, 176 London Road, Portsmouth, Hampshire, PO2 9DR. Account No. 11300175, Sort Code 52-41-32. Account name - "TUV NEL Limited".
Please advise your bank to include the event code COF136 and the delegate's surname in the transfer instructions.

Credit Card — Start date Expiry date
 Visa Mastercard Amex Diners
Card No

Card Holders Name Signature
Address (if different from above)
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Cancellation Policy

Substitution of delegates can be made at any time. Cancellations may be submitted no later than 1st November and will be subject to a charge of £150 + VAT. There is no refund for cancellations received after this date. NEL reserves the right to cancel the event due to unforeseen circumstances. NEL is not liable for any expenses incurred by the delegate. This programme may be subject to change due to circumstances beyond the control of the organisers.

Venue and Accommodation

Hilton Aberdeen Treetops, 161 Springfield Road, Aberdeen, AB15 7AQ, Tel: 01224 313377 Fax: 01224 312028
If accommodation is required please contact the venue directly.

Exhibition Opportunity

If you would like to exhibit at this event please contact Susan Tough below for further information.

Signed.....Date.....

Please photocopy & faxback or post to: Susan Tough, NEL, East Kilbride, Glasgow, G75 0QU, UK
Fax: +44 (0) 1355 272626 E-mail: stough@nel.uk Telephone: +44 (0) 1355 272858

Where did you here about this event?