



nel

oil & gas services



Oil & Gas Emissions Seminar

Wednesday 11 June 2008

Measurement Uncertainty Training Course

Thursday 12 June 2008

Thistle Aberdeen Airport Hotel

Organised by

TUV NEL Ltd, EAST KILBRIDE, GLASGOW, UK

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ONLINE BOOKING: www.tuvnel.com/events.aspx

Oil & Gas Emissions Seminar

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Thistle Aberdeen Airport Hotel
ABERDEEN, UK



Introduction

Key environmental legislation places an obligation on energy intensive sectors to report their greenhouse gas emissions effectively. The need to report this information accurately is reflected in supporting measurement guidelines. The EU ETS reporting guidelines (MRG2007) stipulate limits on measurement uncertainty. However, although prescriptive and demanding in many aspects, the MRG clearly lacks detailed technical guidance to assist industry in meeting the requirements.

Background

In reality, the measurement of atmospheric emissions is a new and complex science. In addition, the offshore oil and gas industry differs considerably from other industry sectors, where often the environment is hostile and unpredictable. There are also many other constraints that limit the choice of emissions monitoring equipment. Some of the more established technologies for measuring atmospheric emissions are unsuitable for the oil and gas sector. For these reasons, this industry faces serious challenges and difficulties in meeting their legal obligations - particularly with respect to determining CO₂ emissions from flares and PPC sampling of combustion plant emissions.

With the EU ETS in its first commitment year, and the IPPC Directive now incorporating all existing offshore installations, it is important at this stage for industry to get together to share all available knowledge in order to help establish acceptable industry-wide, cost-effective solutions.

Seminar Objectives

TUV NEL are hosting this one-day seminar which will allow delegates the opportunity to network, interact and share experiences with others involved in the monitoring and reporting of atmospheric emissions.

Attendees will be able to keep abreast of the latest legislation and technological developments as well as current practices, trends and needs of the oil and gas industry.

The seminar will be accompanied by an optional training course.

Topics and Themes

- Regulatory requirements
- UK operator's perspective
- Verifier's perspective
- Norwegian operator's experience of implementing EU ETS
- Offshore PPC sampling of combustion plant
- Flare emissions - uncertainties and verification
- HRVOC on-line monitoring of flare and cooling tower

Who Should Attend

The seminar is designed for all those involved and concerned with the monitoring and reporting of atmospheric emissions in the oil and gas industry.

It is aimed at:

- Oil and gas duty holders
- Environmental reporting personnel
- Metering and measurement specialists
- Management
- Regulators
- Verifiers
- Equipment manufacturers and suppliers
- Service providers
- Industry experts
- Research establishments
- Test laboratories

TUV NEL

TUV NEL is a leading provider of technology services to the oil and gas industry. We deliver a portfolio of services to support our customers in maintaining environmental obligations. Backed up by our track record of organising industrial clubs, and international seminars and training courses, we provide consulting, training, measurement, R&D and laboratory testing services in the following areas:

- Flow Measurement (oil, gas, water, wet gas, multiphase & heavy oil)
- Produced Water Systems
- Computation Fluid Dynamics Modelling and Interpretation
- Calibration in National Flow Measurement Facility
- Emissions Monitoring and Compliance

TUV NEL is part of the TÜV SÜD Group, the leading global technical services organisation for test, certification and consulting in industry with over 10,000 employees at 60 locations around the globe.

For further details on how TUV NEL can help your business, please visit our website: www.tuvnel.com or contact us directly.

Exhibition Opportunities

Suppliers of equipment and services who attend the seminar are invited to sponsor or exhibit at the seminar. This will give your company a profile in the final programme in addition to a stand at the exhibition. The cost to exhibit including a delegate place for the seminar is £725 plus VAT.

Seminar Fees

The registration fee for the seminar is £415 plus VAT. Registration fee covers delegate attendance, lunch, refreshments, seminar documentation comprising of a bound set of all the papers presented and also a CD containing the proceedings.

Seminar Technical Programme - Wednesday 11 June - 09:00 - 17:00

09:00 – 09:30	Registration and Coffee	13:50 – 14:20	An Overview of Current Technologies Jeff Gibson, TUV NEL – UK
09:30 – 09:40	Chairman's Welcome and Introduction Jeff Gibson, TUV NEL – UK	14:20 – 14:50	Offshore PPC Emissions Sampling - Experience So Far Richard Appleyard, RSK Group – UK
09:40 – 10:10	Regulatory Requirements Lynn Hunter, TUV NEL – UK	14:50 – 15:20	Coffee and Exhibition
10:10 – 10:40	BP Experience of Emissions Monitoring for the Upstream Oil and Gas Sector Andrew Watson, BP – UK	15:20 – 15:50	Chevron Upstream Europe's Approach to EU ETS Flare Gas Measurement Compliance – Uncertainties, Practicalities and Possible Verification Techniques Colin Adamson, Performance Improvements (PI) Group Limited – UK Alan Elphinstone, Chevron Upstream Europe – UK
10:40 – 11:10	Coffee and Exhibition	15:50 – 16:20	A Practical Approach to Validation & Optimization of Ultrasonic Flare Flow Meters Gordon Mackie, GE Sensing – UK
11:10 – 11:40	Implementing EU ETS in the Norwegian Offshore Sector – Experience from Statoil Hydro Endre Jacobsen, Statoil Hydro – Norway	16:20 – 16:50	Open Discussion Period
11:40 – 12:10	Verifier's Perspective Steve Ross, ISR Consultants Ltd – UK	16:50 – 17:00	Chairman's Closing Remarks
12:10 – 12:40	Open Discussion Period		
12:40 – 13:40	Lunch		
13:40 – 13:50	Chairman's Welcome and Introduction Gordon Harvey, BP – UK		

1 Day Training Course - Measurement Uncertainty - Thursday 12 June - 09:00 - 16:30

Introduction

With measurement uncertainty underpinning the whole credibility of environmental reporting, this one-day training course is designed to equip industry personnel with the fundamentals necessary for calculating measurement uncertainty. It is vital that all those using industrial measurement recognise that measurement is not an exact science. Understanding the magnitude of the uncertainty associated with any measurement is the first step to improving accuracy. An ability to identify the key issues affecting accuracy is the crucial step in ensuring that limited resources are correctly targeted in any drive to improve accuracy.

This course will introduce delegates to the techniques required to identify what affects measurements and by how much. By ranking the effects, delegates will be able to guard against invalid conclusions and ensure that the key measurements are targeted for investment in new instrumentation.

Designed to impart an understanding of measurement uncertainty using examples relevant to emissions measurement in the oil and gas sector, delegates will learn the appreciation of the impact of measurement uncertainty on the oil and gas industry, identify the important sources of uncertainty in measurement systems and receive practical guidance on the design of measurement techniques for improved uncertainty.

Course Director

Dr Norman Glen joined TUV NEL in 1983. Since then he has worked on a wide range of projects including heat exchanger fouling, stack emissions monitoring, the application of data reconciliation techniques to flow measurement in pipe networks and the traceable calibration of industrial densitometers, all of which require understanding of the effects of uncertainty of measurement on the results obtained. By drawing on this diverse background, he is able to illustrate key learning points relating to the use of uncertainty for system design and data analysis.

Who Should Attend

- Instrumentation engineers
- Environmental reporting personnel
- Metering specialists
- Quality managers
- Technical managers
- Verifiers
- Equipment manufacturers
- Service providers

Course Fee: £415 plus VAT

