

UKOPA Work in Progress Report Review of 2006 Activities

Activity	Progress	Key Contacts
ACDS MHSC Working Group on Pipelines	<ul style="list-style-type: none"> • The Working Group on Pipelines (WGP) has been closed, as the ACDS committee structure it reports to has been closed. • WGP held a final close out meeting in October 2006, have supported use of the technical work programme to develop and draft a codified approach for the application of pipeline risk assessment for LUP advice for publication as a supplement to BS PD 8010 and IGE TD/1. • As part of a new, ongoing relationship between HSE and UKOPA, HSE hosted a Technical Seminar in November 2006, at which key priorities and outstanding actions were discussed. 	M Harrison, P Davis, P Brown, R McConnell, J Haswell
H,S&E Incidents	Ongoing: <ul style="list-style-type: none"> • Informal reports and discussion on incidents occurring in member companies • Sharing of knowledge and learning • Sharing good practice on HS&E management initiatives • Proposal to publish UKOPA Safety Alerts 	R McConnell, P Jones
Risk Based Land Use Planning	<ul style="list-style-type: none"> • The best practice approach for the site specific risk assessment of new developments in the vicinity of MAH pipelines developed as code supplements to PD 8010 and IGE/TD/1 Ed 4 has been subject to significant expert review. Comments received have been subject to detailed consideration, and the drafts for public consultation are being progressed. • UKOPA has agreed a current best practice position regarding the approach to predictive modelling for pipeline failure frequency due to 3rd party interference • A risk assessment methodology for gasoline pipelines has been completed • Technical meetings have been held with HSE to discuss:- i) modelling of failure due to mechanical damage, prediction of the failure frequency for mechanical damage for specific pipelines, failure frequency due to natural landsliding, corrosion and material and construction failures. • UKOPA recommendations for pipeline failure frequencies due to the key damage mechanisms have been agreed. 	N Jackson Risk Assessment Working Group

UKOPA Pipeline Fault Database	<ul style="list-style-type: none"> • A new contract for the ongoing update, development and maintenance of the fault database is being negotiated. • A data completion, checking and sign-off procedure has been introduced to provide a formal procedure for closing out the annual data reporting. • Regular reports database usage statistics are produced. • A report on recommended failure frequencies for all pipeline damage mechanisms based on analysis of fault data has been produced. • UKOPA is now submitting UK data to the EGIG failure database on behalf of pipeline operators responsible for natural gas/methane pipelines. • The FDMG has actioned the drafting of recommendations for the regular publication of fault as well as failure data 	R Ellis, Fault Data Management Group
3 rd Party Infringements	<ul style="list-style-type: none"> • Formal UKOPA infringement data reports are now published annually by UKOPA • HSE is now using data in discussions with contractor organisations. • A detailed statistical assessment of the infringement data has been carried by HSL for HSE, and the results were provided by HSE to UKOPA. • The results indicate that the number of A1 infringements since October 05 has started to reduce, but the number of B1 infringements appears to remain constant. • Excavation safety webpage has been developed and is available on the UKOPA website • Development of an Industry awareness DVD is being progressed. • The UKOPA article prepared by Guy Hemsley was published in full in the Land Drainage Contractors Association Journal and the Country Landowners Association Magazine. An abridged version was also published in the August edition of the Farmer's Weekly Magazine. 	M Harrison, 3 rd Party Infringement Work Group.
Pipeline Emergency Materials and Equipment	<ul style="list-style-type: none"> • The first draft of the UKOPA register of available emergency materials and equipment has been circulated. • This is to be finalised and published for use by members. 	D Cullen
Formal Consultations	<ul style="list-style-type: none"> • Railtrack Leases, Pipeline Rating Revaluation, Buncefield Working Group 	R Ellis, P Davis, D Cullen, P Jones, D Perry

Highlights:**Technical Presentations to UKOPA:**

Inspection of Inaccessible Pipes using Guided Wave Technology – Ian Drummond and Mike Smith of RGB Ltd.

Pipeline Defect Assessment Manual (PDAM) Update – Andrew Cosham, Penspen

On-Line, Non-Intrusive Diagnostic Techniques for Pipeline Pigging, Inspection and Flow Assurance – Lee Robins, Tracerco

Pigging of TSEP - Robert Pitt and Holger Hennerkes of Rosen

Feedback relating to On-Line Inspection of Offshore Pipelines – Blair McKay

Pipeline Inspection – Recent Initiatives by National Grid, Robert Owen

Onshore Pipelines – The Potential Enabler for Carbon Capture and Storage – Richard Vernon

Pipeline Failures – J V Haswell

The application of ALARP and Cost Benefit Analysis – Andy Rushton of the HSE

The Corrib Onshore Pipeline and the Public Perception of Risk – Mike Acton of Advantica

National Grid approach to compliance with DSEAR 2002 – T Stonehewer

The practical application of the Code Supplements based on hypothetical development cases – Rod McConnell and Jane Haswell

The Newcastle University Centre of Pipeline Engineering – Professor Phil Hopkins and Dr Julia Race

Environmental Risk Assessment – Will Jeffries, Esso Petroleum Co. Ltd and Rod McConnell

National Grid's Approach to Environmental Risk Assessment – Steve Yeomen, National Grid

Contingency Planning and Emergency Response - Lessons learnt from recent incidents – Dave Whiskered, Operations Director, Adler and Allan Ltd

Pipeline Infringements – A Utility Perspective – Ellis Catherall, Environmental Health and Safety Advisor, BT

HSL Analysis of the UKOPA Infringement Database – Lynne Jones, Senior Scientist, HSL

Presentations by UKOPA:

UK Onshore Safety Seminar held at the PIG offices in London on 21/3/06:-

UKOPA – M Harrison

Development of IGE/TD/1 – J Haswell

UKOPA Development in Pipeline Risk Assessment and HSE LUP Zones – R McConnell

Papers Published by UKOPA:-

Requirements for the siting of Wind Turbines close to High Pressure Pipelines	UKOPA/06/0019
Draft UKOPA Strategy 2006 – 2011	UKOPA/06/0028
Recommendations for Pipeline Maintenance and Inspection	UKOPA/06/0032
Guidance for Managing Product Release Emergencies and Damaged Pipelines	UKOPA/07/0008

Initiatives:

Preparation and agreement of UKOPA 5 year strategy

Preparation of recommendations for publication of pipeline fault as well as failure data

Development of links with the Centre for Pipeline Engineering, Newcastle University

Study on existing methods for assessment of dents in pipelines by Newcastle University

UKOPA Prize 2006:

The UKOPA prize for the best academic achievement in the MSc in Pipeline Engineering at the University of Newcastle upon Tyne was awarded in 2006 by Neil Jackson on behalf of UKOPA to student Khoi Tu.

UKOPA Representation on External Committees:

ACDS MHSC Working Group on Pipelines (closed in October 2006)

M Harrison (representing non-natural gas pipeline operators)

N Jackson (representing natural gas pipeline operators)

P Davis (representing gasoline pipeline operators)

R McConnell (UKOPA nominated independent consultant)

J Haswell (Secretary, on behalf of UKOPA)

CAPEPLG (HSE)

N Jackson (National Grid)

Pipeline Working Group of Experts to Advise the Commission on a Strategy for dealing with Accidents in the Transport Sector

T Taylor (Esso)

Buncefield Working Group

R Ellis (Shell UK)

T Taylor (Esso)

BSI PSE/17/2 (PD 8010)

J Haswell

Joint IGEM/BSI Working Group for Development of Pipeline Code Supplements for Risk Assessment of Developments in the Vicinity of High Pressure Pipelines

N Jackson (National Grid)

R McConnell (UKOPA)

R Ellis (Shell UK)

R Espiner (BP)

P Hall (BP)

N MacNaughton (Ineos)

G Goodfellow (Centrica)

UKOPA Working Groups:

Risk Assessment Working Group

N Jackson (Chairman, National Grid)

R McConnell (Secretary, UKOPA)

R Ellis (Shell UK)

R Espiner (BP)

P Hall (BP)

N MacNaughton (Ineos)

B Dalus (Northern Gas Networks)

P Davis (BPA)

G Goodfellow (Centrica)

M Acton (Advantica)

J Haswell (UKOPA, PIE)

Pipeline Fault Data Management Group

R Ellis	(Chairman, Shell UK)
R Espiner	(BP)
R Owen	(National Grid)
E Reeder	(Innovene)
L Haw	(Sabic)
P Smith	(Sabic)
B Keyes	(Scotia Gas Networks)
S Skipp	(Scotia Gas Networks)
M Alderson	(Northern Gas Networks)
W Jones	(Wales & West Utilities)
P Rycroft	(HSE)
J Haswell	(UKOPA, PIE)

Infringement Working Group

M Harrison	(Chairman, SABIC UK Petrochemicals)
D Willett	(National Grid)
G Hemsley	(BPA/Linewatch)
T Gillard	(Shell UK)
K Smith	(BP)
C Clarke	(W&W Utilities)
M Thomson	(Ineos)
J Stancliffe	(HSE)

2006 Work Programme:

Completion of approved programme of work on pipeline risk assessment covering:-

- 1 Completion of Ground Movement – location-based impact on pipeline failure frequency (National Grid)

- 2 Completion of study on predictive modelling study for 3rd Party interference, and confirmation of recommendation for use of gas industry FFREQ model for all UK pipelines
- 3 Completion of justification for pipeline protection measures
- 4 Development of UKOPA recommended risk zones for ethylene pipelines for use in LUP assessments
- 5 Spiked crude pipeline risk assessment:-
Joint work with BP – calculation of LUP zones using revised methodologies
- 6 Preparation of draft of Gasoline Pipeline Risk Assessment Methodology
Develop hazard factor and risk assessment methodology for pipeline operators.
- 7 Codified Approach – Application of Risk Assessment to Developments in the Vicinity of Pipelines
Development of supplements to pipeline codes BS PD 8010 and IGE/ TD/1 (continued).

PERO Update Courses – Continued support and sponsorship

Formalisation of the UKOPA Pipeline Emergency Materials and Equipment Register

Publication of UKOPA Pipeline Infringement Database Reports

Continued involvement in Rating Revaluation Forum

Ongoing Activities:

Continued close working with the Regulator in development to and amendment of safety legislation.

Monitoring of development of European Legislation for proactive involvement as appropriate.

Liaison with European Pipeline Organisations (Pipeline Federation, Marcogaz, Ethylene Operators Forum).

Development and enhancement of the UKOPA Pipeline Fault Database.

Development of the UKOPA Pipeline 3rd Party Infringement Database.

Publication of supplements to BS PD 8010 and IGE/TD/1 for a codified approach to the application of risk assessment for developments in the vicinity of pipelines.

Current Initiatives:

Support launch of BS PD 8010 and IGEM TD/1 code supplements

UKOPA Technical Seminar – In-Line Inspection

Future Initiatives

Formal strategic interface with HSE

Development of a Pipeline Risk Assessment Handbook.

Development of web-based infringement database

Environmental Impact Assessment – Development of a risk based approach