

UKOPA Work in Progress Report Review of 2003 Activities

Activity	Progress	Key Contacts
ACDS MHSC Working Group on Pipelines	<ul style="list-style-type: none"> • Progression of agreed technical agenda • HSE acceptance of UKOPA database for 3rd party damage failure frequencies • HSE implementation of the codified methodology for formulating land use planning advice in the vicinity of high pressure gas pipelines • HSE Implementation Project for the Fundamental Review of Land Use Planning (IFRLUP) – WGP involvement in Products 5 and 6 • Study of UK ground movement and prediction of likelihood of occurrence • Proposals for LUP zones for ethylene pipelines • Proposals for risk assessment methodology for gasoline pipelines 	M Harrison, P Davis, P Brown, R McConnell, J Haswell
Pipeline Emergency Plan Testing	<ul style="list-style-type: none"> • Agreement of proposals for PERO update course 	Emergency Planning Working Group
H,S&E Incidents	<p>Review of published international incidents</p> <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 	R McConnell, P Jones
Risk Based Land Use Planning	<ul style="list-style-type: none"> • Strategic input to ACDS MHSC Working Group on Pipelines technical agenda on behalf of UKOPA – Implementation of LUP zones for natural gas pipelines, development of proposals for LUP zones for ethylene pipelines, review of risk assessment of gasoline pipelines, consistent use of event trees and transparent application of risk criteria. • Review of pipeline mechanical damage model. • Study of application of UKOPA database to all pipelines. 	R McConnell Risk Assessment Working Group

	<ul style="list-style-type: none"> • Review of impact of pipeline protection on pipeline failure frequency modelling • Development of proposals for LUP zones for ethylene pipelines • Database of developments in the vicinity of pipelines • Review of risk assessment of gasoline pipelines 	
UKOPA Pipeline Fault Database	<ul style="list-style-type: none"> • Publication of leak and fault data updated to 2002 • Paper on the UKOPA Pipeline Fault Database – Application to all Pipelines • Consideration of proposals for improvements to database updating and access capability 	Fault Data Management Group
One Call System	<ul style="list-style-type: none"> • Continued support for PIG One Call Working Party and Subgroups • Continuation of Cheshire One Call Pilot Study 	K Thomas, H Morris
Competency Framework	<ul style="list-style-type: none"> • Review and Feedback on implementation of UKOPA Competency Database 	Competency and Training Working Group
3 rd Party Infringements	<ul style="list-style-type: none"> • Collation and assessment of UKOPA data - 3rd party infringements 	M Harrison
PD 8010	<ul style="list-style-type: none"> • UKOPA involvement in PD 8010 committee – Response to public consultation. 	J Haswell, P Docherty
New Initiatives/ Formal Consultations	<ul style="list-style-type: none"> • Railtrack Leases, Pipeline Rating Revaluation , pipeline emergency repair club 	R Ellis, P Davis, D Cullen, P Jones

Highlights:

Technical Presentations to UKOPA:

Demonstration of Emergency Planning Software, Richard Farrell, Advantica Technologies

HSE Organisation and Regulatory Control Systems, Vic Coleman, Division Head, Hazardous Industries Policy, HSE

Railtrack Leases, Howard Coffell, Field Fisher Waterhouse

Tackling Vibration at Compressor Stations and Pressure Reduction Stations, Neil Jackson, Transco

Training and Competence in Pressure Testing, Brian Woodhouse, National Grid Transco

Review of Aerial Surveillance, Lindsay Boswell, BP

Presentations by UKOPA:

UKOPA – The First Five Years Presentation to Ethylene Pipeline Operators Forum, R Ellis

Pipeline Incident Definitions, presentation to CAPEPLG, N Jackson

Review of Gasoline Pipelines QRA, presentation to Working Group on Pipelines Technical Workshop, R McConnell, ABB

Reviews/Updates:

Review of Gasoline Pipelines QRA – R McConnell, ABB

Review of Pipeline Protection – R McConnell, ABB

Publications:

UKOPA Fault database – Update to 2002, Advantica

UKOPA Pipeline Fault Database – Application to All Pipelines – J Haswell

Initiatives:

Investigation of Failure of Ethylene Pipelines (R Ellis)

Pipeline Emergency Materials and Equipment Register (D Cullen)

Coordinated input to Pipeline Rating Revaluation (P Davis)

Development of UKOPA database on 3rd Party Infringements (M Harrison)

Pressure Equipment Directive – User Responsibilities (J Haswell)

UKOPA Prize 2003:

The UKOPA Annual prize 2003 for academic achievement was awarded to Victoria Jackson, MSc Pipeline Engineering, University of Newcastle Upon Tyne.

United Kingdom Onshore Pipeline Operators' Association

UKOPA Representation on External Committees:

ACDS MHSC Working Group on Pipelines

M Harrison (representing non-natural gas pipeline operators)
 P Brown (representing natural gas pipeline operators)
 P Davis (representing gasoline pipeline operators)
 R McConnell (UKOPA nominated independent)
 J Haswell (Secretary, on behalf of UKOPA)

Working Party (Risk Assessment) (ACDS MHSC WGP)

R McConnell
 R Ellis
 N Jackson
 P Davis
 K Thomas

One Call Working Party (PIG)

D Gray

SubGroups:	Business Case	P Davis
	Location of Equipment	J Vardon
	Training	K Thomas

CAPEPLG (HSE)

N Jackson

BSI PSE/17/2 (PD 8010)

J Haswell
 P Docherty (Sembcorp)

United Kingdom Onshore Pipeline Operators' Association

Safe Isolation of Plant and Equipment (HSE)

S Kennedy

UKOPA Working Groups:

Emergency Planning Working Group

J Haswell (Chairman, PIE)
K Thomas (Huntsman)
M Thomson (BP)
N Jackson (Transco)
T Gillard (Shell UK)
R White (Total)

Risk Assessment Working Group

R McConnell (Chairman, ABB)
R Ellis (Shell UK)
(BP)
N Jackson (Transco)
P Davis (BPA)
J Haswell (PIE)

Pipeline Fault Data Management Group

R Ellis (Chairman, Shell UK)
R McConnell (ABB)
R Espinar (BP)
N Jackson (Transco)
P Davis (BPA)
J Haswell (PIE)

Competency and Training Working Group

K Curtis	(Chairman, Powergen)
D Cullen	(Shell Expro)
R White	(Total)
J Haswell	(PIE)

Future Plans

Ongoing Activities and Initiatives:

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

Involvement in the development of European Legislation (PIMS, E-PIMS, Emergency Plan Testing, Land use Planning, Provision of Information to the Public.

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

Development and enhancement of the UKOPA Pipeline Fault Database.

Continued support for and involvement in ACDS MHSC Working Group on Pipelines (including support for involvement in Products 5 and 6 of the HSE Implementation Project for the Fundamental Review of land Use Planning Project).

Support publication of BS PD 8010.

2004 Work Programme:

Completion of Approved and Resources Programme of Pipeline Risk Analysis Work:

- 1 Ground Movement – location-based impact on pipeline failure frequency
- 2 Predictive Modelling:
Limit State Function
Operational Pipeline Risk Assessment Tool
- 3 Mitigation Fault Tree Analysis

- 4 Ethylene pipeline LUP Zones
Review failure rate data
Generalised risk assessment
- 5 Spiked crude pipeline risk assessment
Joint work with BP
- 6 Gasoline Pipeline Risk Assessment

PERO Update Courses

Active consultation in HSE programme for publication of amendments to Pipeline Safety Regulations:

- i) Testing of pipeline emergency Plans
- ii) MAHP classification of gasoline pipelines

Pipeline Emergency Materials and Equipment Register

Expansion of UKOPA Pipeline Infringement Database

Involvement in Rating Revaluation Forum

UKOPA Paper – Pipeline Fatigue Analysis

2005 Work Programme

Pipeline failure frequency prediction software development

Future Initiatives

Development of a Pipeline Risk Assessment Handbook.

Management of web-based pipeline fault and infringement databases