

United Kingdom Onshore Pipeline Operators' Association

## Notes of Risk Assessment Working Group Meetings held on 10 September and 3 December 2003

10 September meeting was held following the FDMG meeting at Advantica's offices at Loughborough, and the 3 December meeting was held at Newcastle University following the presentation of the UKOPA Prize to the top MSc Pipeline Engineering Student, Victoria Jackson.

Present:-

Jane Haswell	-	Pipeline Integrity
Roger Ellis	-	Shell
Neil Jackson	-	Transco
Neil Macnaughton	-	BP
Richard Espiner	-	BP (10 Sept. only)
Rod McConnell	-	ABB Eutech

### 1 10 September Meeting

Notes of the FDMG meeting have been issued by Clive Ward of Advantica.

The discussions held with HSE at the 9 July Working Group on Pipelines meeting at Bootle was reviewed. The main outcome is that the work of the WGP will integrate through the Implementation Project for the Fundamental Review of Land Use Planning. Rod McConnell has been nominated to attend the Product 5 group which is reviewing fitness for purpose of risk assessment methodologies. WGP will also be involved with Product 6. Essentially HSE continue to decline any involvement with the work being done by the Working Party (Risk Assessment) due to resource limitations. Therefore the 6 main areas of work from WP(RA) are left to be progressed by UKOPA Risk Assessment Work Group. An estimate of costs to progress this work was requested for the 24 / 25<sup>th</sup> September UKOPA Meeting at Grangemouth. **Action** - Jane Haswell agreed to draft a letter to ACDS explaining the background to the WGP and expressing UKOPA's disappointment at HSE's reluctance to continue with the work.

Programme for further meetings.

25<sup>th</sup> November – Working Group on Pipelines Gasline Technical Meeting

3<sup>rd</sup> December – RAWG Meeting

14-15<sup>th</sup> January 2004 – UKOPA Meeting

28<sup>th</sup> January 2004 – WGP Meeting

10<sup>th</sup> February – RAWG Meeting – Neil Jackson offered to host the meeting at Hinckley

10-11 February – PIPESAFE Meeting

24 March – FDMG Meeting

### 2 3 December Meeting

The meeting followed the presentation by Roger Ellis, Chairman of UKOPA, to Victoria Jackson, top student on the 2002-2003 MSc Pipeline Engineering course.

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The meeting reviewed the 6 main areas of technical work being progressed by RAWG:-

2.1 Transco joint work with the British Geological Survey identifying areas of the UK susceptible to ground movement. BGS have now provided the data to Transco, and they are evaluating how the data can be used to screen which pipeline systems may be susceptible. The purpose is to enable the high Natural Failure frequency used in HSE models to be reduced for most pipeline systems. Due to one historical data point, a high Natural Failure frequency has been ascribed to UK pipelines, and this needs to be corrected, especially for S area pipelines with thick-walled pipe, where most of the apparent risk contribution comes from Natural Failure.

The next stage in this work will be for Transco to propose how the BGS work can be incorporated into risk assessments used to generate PADHI Land Use Planning Zones.

**Action with – Neil Jackson**

2.2 Development of Predictive Modelling – a further proposal from Andrew Francis of Advantica “Proposal for the Development of a Mechanical Damage Fracture Mechanics Model for UKOPA” was received on 1 December 2003. Subject to agreement by UKOPA members, the proposal will be progressed during January.

**Action with – Roger Ellis**

2.3 Reduction in Third Party Damage due to Slabbing and Marker tape. Initial thoughts on how to carry out the Fault Tree analysis for assessing the reduction in risk have been developed, and a draft paper will be produced in early 2003.

**Action with – Rod McConnell during Q1 2004**

2.4 Revised Ethylene pipeline Land Use Planning Zones

Work is in progress to evaluate LUP zones for the Trans-Pennine Ethylene Pipeline for Huntsman, and from this, revised LUPZs will be produced based on UKOPA Failure Rate data and HSE Consequence Models. Initial work carried out by HSE showed significant reduction in LUPZs,

**Action with – Rod McConnell during Q1 2004**

2.5 Revised Spiked Crude and NGLs LUPZs

This work is being progressed by BP who are sponsoring work with W S Atkins.

**Action with – Neil Macnaughton**

2.6 Gasoline Pipeline Risk Assessment and LUPZs

It became clear during the meeting held on 25<sup>th</sup> November that having no LUPZs for gasoline is unlikely to be an option. A further meeting with HSE was subsequently held on 10 December to discuss risk assessment methodology. HSE are reviewing their proposed methodology and preparing a paper for the MSDU Panel for late January 2004.

Other issues not discussed – PD8010, Risk Screening/ALARP assessment

Next meeting – 10<sup>th</sup> February 2004

R A McConnell