

**MAJOR HAZARDS SUB-COMMITTEE
Working Group on Pipelines**

**Notes of the 1st Meeting of the Working Party (Risk Assessment)
Held at Advantica's Offices at Loughborough on 30 April 2002**

Present:-

Rod McConnell	ABB	Co-ordinator / WGP member
Bruce McCullough	HSE	
Ian Hirst	HSE	
Stuart Pointer	HSE	
Jane Haswell	Pipeline Integrity	WGP Secretary
Roger Ellis	Shell	
Ken Thomas	Huntsman	
Ken Smith	BP	
Neil Jackson	Transco	
Apologies Peter Davis	BPA	WGP Member

1 Draft remit for the Working Party (Risk Assessment)

This was reviewed and several changes noted. It is to be submitted to next MHSC Working Group on Pipelines (WGP) meeting for approval.

2 HSE Work on LUP Zones for PGT Natural Gas Pipelines

Deadline for roll-out for the new coded approach for LUP zones is end September 2002. HSE are working towards finalising the risk assessment methodology by the end of May so that the final zone distances can be established. Available resources were therefore dedicated to achieving this timescale.

3 Ian Hirst described work on comparing the results of Transco's calculations based on UKOPA frequency data and "Pipesafe" consequence models with those obtained by HSE. Most of differences appeared to be with frequency data used, especially for S area (Suburban) pipelines. Release rate comparisons showed HSE models predict twice the release rate of gas from a rupture, but that the resulting fireball and jet fire effect distances are similar. Work is continuing to consider differences in impact on population and risk levels

4 Stuart Pointer described work to consider frequency data used for the HSE models. A recent meeting with Bob Greenwood of Advantica had clarified aspects of the UKOPA database, and the HSE model now incorporates the Transco / Advantica Structural Reliability Analysis (SRA) models for Third Party Damage. Stuart was reviewing Mechanical Damage and Natural Damage to incorporate UKOPA data. This is particularly important in S areas where these mechanisms dominate and create larger LUP zones than used previously for "thick-walled" pipe (Design factor <0.3). Stuart is meeting with Transco (Neil Jackson) and Advantica on 9 May.

5 Work programme is currently focussed on Natural gas pipelines to:-

- Develop the UKOPA data into the HSE datasets
- Continuing development and discussion of S area pipelines
- Examine differences between Transco and HSE results for LUP zones
- Resolve the PGT methodology for roll-out to Local Planning Authorities
- Next meeting 9 October 2002 at Daresbury

R A McConnell