

**Notes of Risk Assessment Working Group Meeting held on 31
March 2011 at Ambergate**

Approved at Sept 2011 meeting by RAWG

RAWG/11/006

Present:-

Neil Jackson	-	National Grid
Roger Ellis	-	Shell
Peter Davis	-	BPA
Barry Dalus	-	Northern Gas Networks
Grant Rogers	-	Wales & West Utilities
Barr Mackay	-	Scotia gas Networks
Phil Hall	-	BP Grangemouth
Neil Macnaughton	-	Ineos
Tony Taylor	-	Representing Total UK Ltd
Nancy Harmer	-	OPA
Graham Goodfellow	-	GreyStar UK
Mike Acton	-	GLND
Rod McConnell	-	Independent Consultant

After lunch

Karen McDonough and Anna Richardson Owen of HSE joined the meeting.

1 Apologies

Jane Haswell
Robert Owen
Richard Espiner

The chairman welcomed Nancy Harmer from OPA.

2 Notes of last meeting RAWG/10/030, 8 December 2010 at Newcastle University

These were agreed and will be issued to UKOPA membership.

3 Matters arising from Previous Meeting

Action 1 – GL survey on fixed wing Vs helicopter aerial surveillance - survey complete but Mike Acton explained need to obtain participants agreement before circulating to all respondents. **Ongoing Action 1** – Mike Acton to contact respondents to check whether they object to their replies being shared with the other companies that participated.

Action 2 - Geoff Leach to prepare a brief proposal for a joint project on man-made ground movement for sharing with HSE/HSL.- **ongoing Action 2**

Action 3 – Jane Haswell to arrange suitable funding arrangements for Geoff Leach's work with UKOPA Management – complete

Action 4 – Jane Haswell to arrange for proposed ground movement project to be shared with HSE/HSL so that they can include it in their 2011 work program – **ongoing Action 3**

Actions 5,6,7,8, – Agenda items

Action 9 - Neil Jackson to request T Stonehewer to request changes to Linesearch website, G Goodfellow agreed to draft text for T Stonehewer to use. – **ongoing Action 4**

4 Update on Sleeves

Barry Mackay reported on the two workshops now held review sleeves – 22 November 2010 and the recent workshop on 17 March 2011.

The list of actions from the first workshop is being progressed. GL contract to develop draft algorithms and develop scoring system to prioritize sleeves has been approved. Next stage is

to gather data on sleeves by all operators, review equipment in use, then investigate issues relating to maintenance and inspection.

5 Wind Turbines – Risk to Pipelines

Neil Jackson explained the background and reported on the issues raised at the February UKOPA meeting following the presentation from BMT Fleet Technology. Rod McConnell had circulated a note suitable for publication, if required, justifying the 1.5 times turbine tower height safety distance. Mike Acton proposed that a working group should be set up to bring together the work in this area. Neil Jackson agreed to convene a meeting of Mike Acton, Bob Andrews (Fleet), and Rod McConnell. Barry Mackay, Grant Rogers and Graham Goodfellow also agreed to join the meeting.

Action 5 - Neil Jackson to convene a meeting of the wind turbine group

Action 6 - Neil Jackson to investigate legal aspects locating new wind farms **Action 7** - Neil Jackson to raise the issue of location of new wind farms near pipelines with Tony Hetherington of HSE

6 Fault Database Update

Rod McConnell described progress on the change-over to Excel-based database.

Definitive download of all data received from GL in December. List of faults to end October 2010 circulated to member companies in January for checking. Request for additional faults for Oct-Dec 2010 requested – response awaited from some companies.

Complete list of all pipeline data has been sent to National Grid UKD and UKT for verification that all data has been received from GL. Modified reduced lists of pipeline data circulated to all member companies on 30 March – this contains 36 items of data required by UKOPA for the future, and an additional 44 optional items – all data will be stored in the new database. New data input forms have been circulated for new faults (including leaks and defects) and for new pipelines.

Once data for 2010 has been received and checked, the next stage is to start producing the 2-yearly UKOPA Leak Report – scheduled for May-June.

7 Risk Assessment Workshop 14 April 2011

The workshop has been arranged for 14 April at Ambergate, ~20 attendees currently expected. Rod McConnell described the program.

8 UKOPA Technical Seminar 25 May 2011

The seminar has been organised for 25 May 2011 with the theme Pipeline Integrity. Neil Jackson described the program.

9 Update on Damage Statistics

Graham Goodfellow described the discussions with HSL regarding damage data and the 3 defects which HSL had identified not included in UKOPA fault data – 2 were false entries, one was real and needs to be included. Graham agreed that Penspen would re-working the damage distributions and it was agreed that the defect data to the end of 2010 would be used **Action 8** – Rod McConnell to urgently progress collection of data for last 3 months of 2010 and confirm defect data.

Graham confirmed that the data was fitted to 3 distributions, and that FFREQ appeared to use 5 distributions. He was considering using dent force rather than dent depth as one of the distributions.

10 Update on Dents

Barry Dalus gave an update on dent work.

- a) GLND are progressing work on a fatigue model.
- b) Jane Haswell is reviewing data from pipeline operators. UKD data required.
- c) Depth of corrosion in dents – proposal from GLND 22 Feb 2011 has been approved
- d) Jane Haswell is due to organise a further dent workshop.

11 Outstanding HSE Issues

- a) Slabbing – Neil Jackson reported on discussions with HSL and draft paper received for comment:-

MSU/LET/2011/ - Review of UKOPA slabbing analysis - 11 January 2011.

Action 9 - Mike Acton agreed then GLND would provide a response to HSL's draft paper on slabbing

- b) Failure data in TD2 and 8010 Part 3 – Along with the slabbing report HSL also sent another report

A review of the TD2 methodology for calculating failure rates in pipelines and a comparison with the PIPEline Integrity (PIPIN) model by Zoe Chaplin – some of the comments in the report indicate they are not aware of PIE report PIE/06/R0131 UK Pipeline Failure Frequencies by Chris Lyons and J V Haswell.

- c) From December 2010 RAWG meeting, HSL need to be updated on UKOPA's interest in further ground movement studies

- d) HSE/HSL have not yet indicated how they will classify the PalaceKnowe incident. Zoe Chaplin has recently contacted Rod McConnell requesting a further download of the UKOPA database as they are repeating their 2010 analysis of failure rate data.

Action 10 – Rod McConnell / Jane Haswell to arrange a further informal meeting with HSE/HSL to review progress on outstanding issues

12 Date of Next Meeting

September 20th at Tebay was proposed – to be confirmed.

13 Discussion on Gasoline with HSE

Due to the change in approach to regulation brought in by the Coalition Government, the proposed amendment to PSR to include gasoline as a dangerous fluid in Schedule 2 of PSR will not be progressed at present.

Karen McDonough has been asked to explore with industry if there are any alternate ways of securing compliance with the additional duties of PSR to gasoline pipelines. For example rather than gasoline being included in Schedule 2 of PSR and the additional duties apply, gasoline pipelines would be "treated" as included, and enforced by industry by way of guidance or a code of practice that would be developed between HSE & industry. Karen would like to hear UKOPA's views on this approach

Karen also wished to discuss the option of taking the regulatory approach and it would be extremely helpful to have UKOPA's input on this. These discussions and the information gained from them are important for HSE when making recommendations on the way forward with PSR to the HSE Board, especially if the regulatory option is thought to be the best option. Anna Richardson Owen is an HSE economist, and attended the meeting to discuss the Impact assessment for gasoline and the concerns raised about the potential compensation costs to industry.

Peter Davis gave a summary of the background as to why gasoline was not originally included in PSR. He described the four main aspects of including gasoline as:-

- a) notification to HSE of pipeline details
- b) operator producing MAPD
- c) development of major accident emergency plans with Local Authorities (LA)
- d) land use planning zones and PADHI compliance by LAs

The first two were relatively straight forward, and seen by the joint HSE/industry group in 1998 as relatively easily implemented. These were seen as "prevention" measures, helping to minimise the risk of an incident. The second two were more difficult, requiring LA participation and costs. Implications of LUP zones were also costly. These were seen as "mitigation" measures, helping to minimise the consequences of an incident.

In a self-regulatory situation, notification and MAPD would be possible, provided there was approval and agreement with all operators (UKOPA should not be seen as having the authority to provide such agreement), and operators would see this as a cost-efficient way of lowering potential risks.

Voluntary LA "buy-in" to developing emergency plans and implementing land use planning on a voluntary basis is seen as much more difficult, if not impossible in the current cost-reducing environment. There would also be implication on the legality of refusing planning consent for developments based on "voluntary" land use planning zones. Operators might be seen as directly responsible for these zones with implications on compensation claims.

There was a discussion with Anna Richardson Owen concerning wayleaves and compensation claims, and the cost effectiveness of reducing the likelihood of an incident compared to the cost of imposing LUP zones to limit the consequences of an incident.

HSE mentioned that they have commissioned a project with HSL to review the outcome of past LUP advice for fixed site and pipelines – what has happened in cases where developments were refused, allowed, and advice rejected. UKOPA agreed they would like to be involved once the initial project had been formulated. HSE agreed to keep UKOPA involved.

Karen expects her findings and conclusions from the review to be presented to the HSE board in Q3 2011, and they would then decide how to progress the issue.

UKOPA agreed to provide a formal response to HSE (within 2 months) based on their comments.

Action 11: Peter Davis agreed to provide the draft response on gasoline self-regulation for RAWG/Gasoline Operators to comment on.

R A McConnell
Final
December 2011

Table of outstanding actions and those generated at this Meeting		
No	Actions	By
1	Mike Acton to contact respondents to check whether they object to their replies being shared with the other companies that participated.	MA
2	Geoff Leach to prepare a brief proposal for a joint project on man-made ground movement for sharing with HSE/HSL.	JVH/ GL
3	Jane Haswell to arrange for proposed ground movement project to be shared with HSE/HSL so that they can include it in their 2011 work program.	JVH
4	Neil Jackson to request T Stonehewer to request changes to Linesearch website, G Goodfellow agreed to draft text for T Stonehewer to use.	NJ/GG
5	Neil Jackson to convene a meeting of the wind turbine group	NJ
6	Neil Jackson to investigate legal aspects locating new wind farms	NJ
7	Neil Jackson to raise the issue of location of new wind farms near pipelines with Tony Hetherington of HSE	NJ
8	Rod McConnell to urgently progress collection of data for last 3 months of 2010 and confirm defect data.	RAM
9	Mike Acton to provide a response to HSL's draft paper on slabbing	MA
10	Rod McConnell / Jane Haswell to arrange a further informal meeting with HSE/HSL to review progress on outstanding issues	RAM /JVH
11	UKOPA agreed to provide a formal response to HSE (within 2 months) based on our comments. Peter Davis agreed to provide the draft on gasoline self-regulation for RAWG/Gasoline Operators to comment on.	PD