

**Notes of Risk Assessment Working Group Meeting held on
24 March 2009 at Ambergate**

FINAL agreed at RAWG Meeting 27 August 2009

RAWG/09/010

Present:-

Neil Jackson	-	National Grid (Chair)
Barry Dalus	-	Northern Gas Networks
Phil Hall	-	BP Grangemouth
Jane Haswell	-	PIE
Peter Davis	-	BPA
Mike Acton	-	Advantica
Graham Goodfellow	-	Centrica
Richard Espiner	-	BP Sunbury
Neil Macnaughton	-	Ineos Grangemouth
Rod McConnell	-	Independent Consultant

1 Apologies –

Roger Ellis	-	Shell
Will Jeffries	-	Exxonmobil

The Chairman welcomed the new member, Will Jeffries, from Exxonmobil, who was unfortunately not able to attend the meeting.

2 Minutes of last meeting, 3 December 2008 at Newcastle University

These were agreed as an accurate record, and will be issued to UKOPA membership.

3 Matters arising from Previous Meeting

Table 1 Actions Listing was used to review previous meeting actions.

1 – Barry Dalus has circulated the Advantica algorithm on dents.

2 – Rod McConnell presented a proposal for a workshop on quantified risk assessment (RAWG/09/004). It was agreed that this provided a good basis for proceeding with a workshop for 40-50 UKOPA members at Eakring or Ambergate, probably in November 2009, using various speakers from risk assessment consultancies (Advantica [now GL], DNV, Atkins, Penspen, Beth Morgan, Shell GS).

Action 1 – Rod McConnell to contact speakers and make arrangements for the proposed risk assessment workshop in November 2009

3 – UKOPA damage data follow-up work - Jane Haswell to request data from Advantica.

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Stage 1 is to be progressed by a small UKOPA group (Jane Haswell, Richard Espiner, Graham Goodfellow, + someone from Advantica [via Mike Acton]).

Graham Goodfellow offered to host meeting to agree principles for analysing the damage data. The 1300 records are to be sorted offline, followed by a final meeting to consider difficult data, and define detailed scope of Stage 2. Selected companies would then be asked to provide a quotation for Stage 2.

Stage 1 of work from proposal RAWG/08/033 has still to be progressed, during which the specification for Stage 2 will be developed. Mike Acton also commented that FFREQ will need to be updated based on the results of this work.

Action 2 - Jane Haswell agreed to progress the work on UKOPA 3rd party damage data Weibull correlations

4 – Dent workshop now organised – agenda item 4 below

5 – Code supplements now complete and issued

6 – Graham Goodfellow has tested FFREQ – agenda item 9 below

7 – IMechE conference, 17 November 2009 – agenda item 8 below

8 – Strategy and objectives review - complete

4 Pipeline Dent Workshop

The Workshop for interested UKOPA members is being organised for Thursday 23 April. The draft agenda has been produced, and invitations issued. Further work on screening algorithm is required, and is part of workshop objectives.

5 IGEM Seminars, 17 and 25 March

The Swindon seminar was well attended, more expected at the Manchester seminar on 25 March. Presentations cover PD 8010-3 as well as IGEM TD/2

6 Feedback on HSE / HSL Meeting on Slabbing

A meeting was held with HSE and HSL on 5 March to consider Gary Toes' fault tree on slabbing (see RAWG/09/009)– Gary will update latest version based on UK specific data for HSL. HSE appear to be receptive to allowing significant risk reduction for slabbing.

Rod McConnell reported that he has replied to Zoe Chaplin's request for more background to the depth of cover risk reduction factors included in the code supplements.

7 Code Supplement Landsliding Frequencies

An email discussion during February (see RAWG 09/003) indicates that there may be difficulties interpreting data in Table 13 in TD/2 concerning pipeline rupture rates due to landsliding. In particular the derivation of the predicted background rupture failure rate of 2.1×10^{-4} appears high when compared with the table descriptions, and the three ranges of data in the table are non-continuous.

Action 3 - Jane Haswell agreed to write a UKOPA file note explaining where the landsliding failure data in the table has come from, and proposing how the presentation of the wording and data could be improved in a future version of the code supplements.

8 IMechE Seminar

The UKOPA- IMechE seminar is planned for 17 November at Birdcage Walk in London. The proposed title is Causes and Consequences of Pipeline Failure, and the proposed presentations and speakers are:-

Introduction	-	Roger Ellis
Pipeline Life Cycle	-	Jane Haswell
Case History of Damage	-	Mike Acton
3 rd Party Damage	-	Tony Gillard / Infringement WG
Assessment of Pipeline Damage	-	Robert Owen
Codification	-	Rod / Graham
Process Safety / KPIs	-	Tony Stonehewer
Legislation	-	HSE
Emergency Response	-	Barry Dalus

The UKOPA Technical Seminar is on 9 June 2009 at Eakring.

9 Making FFREQ available to UKOPA Membership

The new Windows version of FFREQ has been installed on the website for trials. Graham Goodfellow has tested and commented on the new version. Mike Acton agreed to review the comments to see if Advantica could implement quick fixes for some of the aspects Graham has highlighted.

There will then be an email launch to the UKOPA membership.

It was noted that Advantica is now changing to GL Industrial Services Ltd (Germanischer Lloyd)

10 Damage Statistics

Covered in matters arising above. Rod McConnell reported on work to correlate 3rd party damage data with depth of cover using standard recorded pipeline depths. Neil Jackson agreed to see if damage data records actual depth at the point where the damage occurred.

11 Review of Work Area Summaries

The work area summaries were reviewed (see RAWG/09/005) Outstanding HSE Issues. The way to progress man-made ground movement was discussed.

Action 4 – Neil Jackson agreed to articulate a strategy for further developing the thinking on man-made ground movement.

Action 5 – Neil Jackson also agreed that a further progress meeting with HSL should be held in Q3 2009.

12 AOB

12.1 Roger Ellis report on meeting with HSL

RAWG/09/007 reports the meeting at Buxton on 19 March 2009 concerning the requirement for detailed pipeline routes for LA Planners.

12.2 HSE Societal Risk Seminar

Mike Acton reported on a free HSE seminar at Buxton on 30 April on societal risk (see RAWG/09/008). Neil Jackson is attending the seminar.

12 Next Meeting – 24 March 2009

Thursday 3rd September has been proposed.

R A McConnell
Draft 01 dated 6 April 2009

Table of outstanding actions and those generated at this Meeting		
No	Actions	By
1	Rod McConnell to contact speakers and make arrangements for the proposed risk assessment workshop in November 2009	RAM
2	Jane Haswell agreed to progress the work on UKOPA 3rd party damage data Weibull correlations	JVH
3	Jane Haswell agreed to write a UKOPA file note explaining where the landsliding failure data in the table has come from, and proposing how the presentation of the wording and data could be improved in a future version of the code supplements	JVH
4	Neil Jackson agreed to articulate a strategy for further developing the thinking on man-made ground movement.	NJ
5	Neil Jackson agreed that a further progress meeting with HSL should be held in Q3 2009.	NJ