

Notes of Risk Assessment Working Group Meeting held on 28 February 2007 at Advantica's Offices, Loughborough

FINAL DATED 14 MAY 2007

RAWG/07/001

Present:-

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

1 Apologies – Richard Espiner - BP Sunbury

2 Minutes of last meeting, 6 December 2006 at Newcastle – comments had been included and were now agreed as an accurate record. They will now be issued to UKOPA membership.

3 Matters arising from 6 December 2006 Meeting

Actions lists from previous meetings were reviewed and discussed. Most items have now been progressed and completed, or were included as agenda items for this meeting. Action lists are shown in Appendix 1 below **Table 1** shows actions still outstanding from previous meetings, including actions from the UKOPA-HSE meeting held on 10 November 2006. **Table 2** new actions generated at this meeting.

Action 1 from previous meeting was for JVH to generate an action list from the 10th November UKOPA-HSE meeting notes. This was done, and actions were reviewed. Actions are now incorporated into Table 1 below.

Document control and archiving – JVH has produced a Register of Technical Justification Documents supporting Code Supplements. Several of these have UKOPA reference numbers, other do not.

Action 1: JVH agreed to arrange for the list of documents on the technical register she has produced to be put on the members website and that she would identify the documents that should be put in the public domain (with the Management Council's agreement).

It was agreed that:-

- (a) Significant documents should be allocated UKOPA numbers and made available to UKOPA membership on the closed section of the website.
- (b) Important documents requiring publication should be submitted to Management Council for approval and agreement before being made available on the public section of the website.

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(c) Routine documents (e.g. ongoing notes of meetings, working documents etc.) should be circulated as required, and master copies and document lists kept by JVH and RAMcC.

Societal Risk and application of F-N Curves to pipelines

This topic occurs in several outstanding action lists. It was agreed that a meeting with HSE should be arranged, the main purposes to understand HSE's position and to improve understanding of how the TD1 curve is applied. RAMcC to arrange a meeting, NJ, MA, GG agreed to attend. [Nigel Riley contacted – will come back with dates].

Action 2:- NJ agreed to review the National Grid Report on the development of the FN curve in TD1 (R2756 by TR Baldwin dated December 1998) and if appropriate to send it to HSE.

4 Supplements Update

JVH described progress. Version 13 of IGE/TD/1 was updated following 17 January meeting, and circulated. Version 12 issued for comment by IGE. Program for publication is on track for later in 2007.

JVH to attend 28 March meeting at BSI for PD 8010 supplement.

Action 3:- A review meeting is to be arranged by GG for Friday 16 March at St Peter's Wharf, Newcastle, 10 am. NJ, JVH, RAM, RE, GG, PH, and PD? to attend.

5 Mechanical Damage Model Update

JVH described contents of "the briefing note and recommendations for methodology for prediction of pipeline failure rates due to 3rd party interference using UKOPA fault data" which she issued on 5 January 2007. It made 2 recommendations: - that FFREQ be adopted by UKOPA, and RAWG methodology be placed with Centre for Pipeline Engineering (CPE) at Newcastle University for use as a research tool. Both were agreed, subject to confirmation of suitable arrangements.

MA described how Advantica propose to make FFREQ available to UKOPA members – one-off development fee (£5K) and annual licensing fee making security key available to allow downloaded software to operate. Proposed charge of £250 per year per UKOPA member was discussed, and a proposal for rolling this into one UKOPA charge was requested from Advantica.

Action 4:- Advantica to submit proposal to UKOPA for making FFREQ available to UKOPA members – to be progressed either through FDMG or via Expenditure Proposal

6 Pipeline Protective Measures

MA gave an update on the ESM Joint Industry Project. Phase 1 had now been completed, consisting of fault tree development and event probability estimates. Phase 2 was currently being negotiated to progress to experimental work to optimise design of slabs and to assess human factor elements.

7 Gasline – Feedback from 12 February London Meeting

Meeting held in London on 12 February, 9 people attended, agenda :- Introduction by PD, proposed methodology described by RAM. Several useful conclusions from discussions allowed unified approach to possible QRA methodology to be defined. Note on proposed methodology has been issued for comment. Approach is now ready for activating when HSE ready to proceed with PSR amendments.

Action 5:- Issue brief notes of meeting and formally withdraw MDOB note issued on 15 November 2006

8 Ethylene Pipelines

Key points of principal regarding application of invalid mechanical and corrosion failure rates from thick-wall pipelines by HSE have still not been progressed, accepted or closed down by HSE – this was the main outcome of the Pottery Farm work and subsequent meetings with HSE in 2006.

Action 6:- Follow through progressing this with HSE at next available meeting opportunity

9 Ground Movement

Paper submitted to HSE – no further progress pending mechanism for dealing with technical proposals by HSE. NMcN quoted published commitments by HSE to update methodology according to latest scientific developments.

To be progressed at next available meeting opportunity.

Action 7:- NJ agreed to provide the HSE with a copy of the National Grid ground movement study for made-up ground.

10 AOB

10.1 Terms of Reference for HSE/UKOPA Technical review Meetings for failed PADHI cases. NJ circulated draft note for this at December meeting, than agreed several changes – latest version to be circulated. Purpose is to establish formal mechanism for progressing cases which fail PADHI, but not to include ongoing methodology issues. This avenue has not been formally open since PADHI was developed. Remains ongoing action; when agreed it will be sent to HSE

10.2 Dr Julia Race at Newcastle University expects to complete the work she is doing for UKOPA describing the methods for assessing dents, and would be happy to present it at the UKOPA Technical Seminar on 20 June 2007 at Eakring.

10.3 National Grid had a meeting with HSE to discuss GIS mapping 31 Jan 07– project in NG over 12 months means information will not be available to HSE until this is finished. HSE want to develop a website to allow intranet access for LUP (PADHI) purposes. National Grid are unable to provide a layer until after the implementation of the Ordnance Survey positional improvements accuracy report. Other operators are to provide a GIS layer to HSE when available.

10.4 Note issued for comment by RAMcC on derivation of BPD and application of MDOB to obtain Inner Zone distance. Conclusion is that equivalent jet flame radiation distances used for BPD and applied to non-natural gas MAHPs (ethylene and LPG) give similar distance to MDOB, so using MDOB for Inner Zone appears to be a realistic approach. Note to incorporate comments, and used for Code Supplement support.

10.5 HSE issued CD211 and RR512 for proposal for revised policies for HSE advice on development and control around large scale storage depots. Comments required – could have implications on pipeline LUP zones.

Action 8:- RAM to review and summarise main points for consideration and comments by RAWG

11 Next Meeting

Next meeting arranged for Monday 14 May at Advantica's Offices at Loughborough.

R A McConnell
FINAL issued on 14 May 2007

Appendix 1 - Risk Assessment Work Group Action Lists

Table 1 - Outstanding Actions from Previous Meetings			
No	Action	By	Progress
1	Joint meeting with HSE to discuss Societal risk and use of F-N curves	RAM	Contact HSE to set up meeting, NJ, MA, GG and RAMcC March – April NJ to consider if report on origins IGE/TD/1 curve could be released
2	NJ & G Hawkins HSE consideration of UKOPA proposal for Newcastle Centre for Pipeline Engineering project	NJ	On hold
3	NG to provide findings of ground movement due to 3 rd party report by Advantica to HSE	NJ	JVH to circulate HSE comments on note of 10 Nov meeting and NJ to consider how to progress this issue
4	HSE to devise formal mechanism for considering risk reduction factors	HSE	Awaiting response
5	Contact with HSE regarding gasoline pipeline QRA and LUP	NJ/ PD	Awaiting further developments when HSE start to move on this project
6	Terms of reference for separate HSE-UKOPA meetings for specific LUP Case work	NJ	Second draft to be circulated – then sent to HSE
7	6 monthly review meeting with HSE – progress on code supplements	NJ / MW	Consider at May RAWG meeting

Table 2 - New Actions Generated at this Meeting 28 Feb 07		
No	Action	By
1	JVH agreed to arrange for the list of documents on the technical register she has produced to be put on the members website and that she would identify the documents that should be put in the public domain (with the Management Council's agreement).	JVH
2	NJ agreed to review the National Grid Report on the development of the FN curve in TD1 (R2756 by TR Baldwin dated December 1998) and if appropriate to send it to HSE.	NJ

Table 2 - New Actions Generated at this Meeting 28 Feb 07		
No	Action	By
3	Review meeting for PD 8010 Code Supplement to be arranged for Friday 16 March at offices at St Peter's Wharf, Newcastle, 10 am.	GG
4	Advantica to submit proposal to UKOPA for making FFREQ available to UKOPA members – to be progressed either through FDMG or via Expenditure Proposal	MA / RE
5	Issue brief notes of meeting and formally withdraw MDOB note issued on 15 November 2006	RAM
6	Follow through progressing changes to mechanical and corrosion failure rates for thick-wall pipelines this with HSE at next available meeting opportunity. Also ground movement failure rates.	NJ / RAM
7	NJ agreed to provide the HSE with a copy of the National Grid ground movement study for made-up ground.	NJ
8	RAM to review and summarise main points of documents issued for revised policies for HSE advice on development and control around large scale storage depots, for consideration and comments by RAWG	RAM