Good Practice Guide Governance Summary – Managing Pipeline Sleeves

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| **Name of Document:** | Managing Pipeline Sleeves |
| **Document Number:** | UKOPA/GP/005 |
| **Author/s:** | Robert Owen / Adrian Wathen / Nikki Barker / Neil Jackson |
| **Background to Document and Document Objectives** | As a result of issues raised by Peter Rycroft of the HSE with UKOPA in 2010, the Risk Assessment and Integrity Working Group established a sub group to determine a ‘Sleeve Management Strategy’ for its members. An initial workshop took place in November 2010, to identify the scope of the work (see chronology below) but in short, work to date has included the development of a maintenance algorithm, review of best practice for sleeve maintenance and the development of a prioritisation process for sleeves based on risk. A preliminary study of the In‐Line Inspection (ILI) results for the sleeves of pipelines operated by UKOPA members has also been undertaken by MACAW.  At the request of the UKOPA PIWG the conclusions of the above work have been detailed within a UKOPA good practice guide. The document is to provide practical advice for UKOPA members when managing pipeline sleeves.  Details of the work completed are given in the document chronology below. |

| **Development**  **Chronology** | **Date completed** | **External Cost** | **Comments Including Summary of Actions Taken** |
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| Initial Sleeve workshop took place in November 2010, at IGEM House, facilitated by GL Nobel Denton, to scope the work required in this process | Nov 2010 | Covered by Mike Acton’s UKOPA Support budget | The meeting, at which the thoughts of Peter Rycroft were presented by Robert Owen, identified a number of actions and outcomes, including the following (all outcomes were identified in the UKOPA sleeve workshop – forward actions prepared by R Owen))  Establish Sleeve population  Develop Sleeve algorithm  Research / prove new inspection techniques  Develop site survey form for data collection (and sharing)  Develop best practice  The output was presented in GL Nobel Denton Report 10533 |
| Sleeve workshop 2, at Loughborough, facilitated by GLND, attended by NGD, NGT, NGN, Ineos, WWU, SGN, BPA, BPUK | March 2011 | Covered by Mike Acton’s UKOPA Support budget | Output from the workshop documented in GL Noble Denton Report Number 11050 – UKOPA Workshop Summary, Development of Sleeve Management Strategy; which identifies the development of New Sleeve Maintenance Algorithms in section 4, plus provides updates on the actions from Nov 2010 meeting |
| UKOPA report number UKOPA/12/001 by S Jackson and M Robinson: Development of a Sleeve Management Strategy | 17 Jan 2012 |  | Report published (which was to be used as the starting point for the UKOPA Good Practice Guide for Managing Pipeline Sleeves).  Peter Rycroft commented on this document via email on 28th July 2011 and this comments were addressed in the final version of the document |
| Robert Owen presented Sleeve Initiative at Abriox Seminar | Oct 2012 |  |  |
| GLND engaged to produce a Sleeve Risk Ranking Model tool | Dec 2012 | £15K (plus £6K to update) | David Walker presented the initial at the Sleeve Workshop held in April 2013. (UKOPA-PO-12-64) extra £6K from Mike Actons support budget |
| Sleeve workshop 3, facilitated by N Barker, and attended by NGD, NGT, NGN, WWU, SGN, Total, Fisher German BPA. The meeting was also attended by David Walker and Mark Robinson from Gl-Group and Peter Rycroft from HSE (Essar, Sabic and Esso, did not attend but wanted to be kept on the distribution list) | April 2013 | £700 (meeting costs) | Adrian Wathen (NG) advised the group of the draft ISO document on sleeves – it was agreed that this work would be reviewed and relevant information added into the revised Sleeve Management Strategy Document. This group consisted of Adrian Wathern, Barry McKay, Barry Dalus, Garr Chau and Nikki Barker  Richard Williams (WWU) shared information about a sleeve failure.  GL presented the Sleeve risk ranking methodology and the group agreed to trial the process with 2 pipelines for each company.  Reported on by N Barker email of 4 May 2013 |
| Sleeve Workshop 4, facilitated by N Barker and attended by NGD, NGT, NGN, SGN, | Oct 2013 | £700 (meeting costs) | GLND transposed Risk Ranking Model into a spreadsheet format. GLND report 13065 supported the model.  Changes were requested that RO feedback for updates to be made and this was done by the end of October 2015  Meeting output reported via N Barker email of 2 Oct 2013 |
| Robert Stockley presented at the 2014 Technical Seminar regarding the Sleeve cut out on the Bacton – Roudham Heath pipeline (Presentation stored in the 2014 Technical Seminar Folder) | May 2014 |  | Initial OLI showed no findings in the sleeve area in 1993. OLI in 2007 identified 6 areas of metal loss within the 43m of sleeve outside the terminal. Replacement of this section in 2013, allowed the pipe to be inspected. One of the main findings were that the 6 features showed no sign of corrosion. |
| Joint Sleeve / Dent Workshop held at Ambergate on 10th June 2014 Attended by NGD, NGT, OPA, Ineos, WWU, SGN, BPA, BPUK, Sabic, Fisher German and Penspen (apologies from ESSAR and NG) | June 2014 |  | Prior to the meeting, the draft Sleeve Management Document, was circulated. This was discussed and suggested changes (UKOPA Sleeves Management Strategy – suggested new sections) and additions made. NB was to update the document, have it reviewed by Adrian Wathen, Richard Williams, Simon Joyce, Barry Dalus and Penspen, and then circulate to the wider group for comment  NJ also engaged to transpose the Document into the UKOPA Good Practice Guide format (3/6/2014) |
| Macaw engaged to carry out Phase 1a of the proposal number 6942 issue 2 dated 30/6/2014 | June 2014 | £8000 | In line with expenditure proposal UKOPA/BP/15/18, Macaw engaged via purchase order UKOPA/PO/15/04) |
| GPG formatted document issued by Neil Jackson | March 2015 |  | GPG V1 issued and updated  Comments sheet prepared – these comments were reviewed and addressed (where necessary) in the updated versions of the document |
| Teleconference attended by Robert Owen, Steve Bateman Tim Rudd and Nikki Barker (joined by Macaw to discuss phase 1a2 of ILI work proposal) | March 2015 |  | TR had reviewed the draft document and comments included on the comments sheet for answering and inclusion. TR also provided information to be included.  Feedback to be provided by RO to the PIWG meeting at the end of March 2015 |
| RO presented an update on the work to the PIWG and it was agreed to engage Macaw to carry out Phase 1a2 of the work | March 2015 |  |  |
| Macaw engaged to carry out Phase 1a2 of the initial proposal in line with Macaw Technical Proposal Number 8093. | June 2015 | £13,860 | Following the meeting Macaw engaged to complete are feasibility review of ILI data with regards to corrosion under sleeves, growth rates etc (as per UKOPA/PO/14/92) |
| Bill Wittaker (BPA) commented on the document | October 2015 |  | Comments added to document sheet and taken account of in latest update |
| External Review by Ian Thompson | January 2016 |  | Final amendments being made to the document before being sent to Ian Thompson (DNV GL) for external reivew |
| Final version of document sent to UKOPA on 28 Jan 2016 | January 2016 |  | Comments taken account of in final document for approval |
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**Progress Tracker**

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| **Document Progress Summary** | | | |
| **Planned issue date:** | March 2015 | | |
| **Current Expected issue date:** | February 2016 | | |
| **Status:** | Green on target | Amber some delays | Red significant delays |
| **If status is red state the reasons for the delays and the actions that are being taken to recover:** | Publication of the document was put on hold pending the development and implementation of a UKOPA governance process for Good Practice Documents. | | |
| **Any additional comments/outstanding issues:** |  | | |

**Governance Group Approval**

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| **Approved by UKOPA Document Governance Group for Publication** |
| Approved by:  Date: |