



PIWG Progress Update Meeting, February 2016

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General

Meetings

- Meetings have been held in November.
- Next meeting planned for 16 March in Ambergate

Membership

- Currently around 18 group members across all sectors

PIWG Aims

- ❑ Act on behalf of UKOPA Members as the expert body on pipeline integrity and defect assessment issues.
- ❑ Support, on behalf of member companies, the development and acceptance of appropriate good practice for pipeline integrity management and defect assessment.
- ❑ Provide the specialist / expert point of contact for UKOPA internal and external communications on pipeline integrity / defect assessment issues.
- ❑ Provide a formal UKOPA interface with HSE for discussions on pipeline integrity related issues.
- ❑ Provide a point of focus within UKOPA for commissioning and progressing technical work related to pipeline integrity and defect assessment with external expert bodies and technical specialist organisations including Universities.

Current Initiatives (1)

Dent Management

FEA validation of dents

- The work was presented at the Aging Pipelines Conference in Ostend and has been submitted for consideration to the IPC 2016.

Dent Management Strategy / Fatigue study

- Flowcharts in DMS have been coded into an Excel spreadsheet. The spreadsheet has been updated and issued to members for testing.
- Analysis of all submitted data is complete and the final report is in draft.

Dents on welds

- Any further work will follow the weld quality investigation project (described later)

Field Investigation Protocol

- A proposal for the development of a dent investigation protocol is in development

Current initiatives (2)

Sleeve Management

- Phase 1B (further analysis of data from 4 gas pipelines + 1 liquid pipeline) is now complete and the report will be presented at the march meeting
- Further scope will be discussed in March.

Seismic Study

- Phase 1 study is complete.
- Data on how Eurocode 8 is being implemented in other European countries has been gathered.
- A sub-team is to be convened to determine how the information can be used in a screening tool for pipeline integrity management.

Solar Farms

- This is now being picked up under the IWG.

Pipeline Strain Analysis

- A questionnaire is being drafted for members to gather data on strain analysis to ascertain whether or not work is required in this area

Current Initiatives (3)

❑ Weld Quality Investigation

- ❑ A mechanism for gathering historic weld data through destructive testing has been proposed.
- ❑ The proposal to test spools 'donated' by member companies has been approved by the Board
- ❑ Spools are being collected at Ambergate prior to testing
- ❑ A comparison of 'old' and 'current' weld quality standards is underway. This will incorporate comparison to British Gas ERS testing carried out in the 1980s and P18 document requirements
- ❑ A questionnaire is to be developed requesting from members any inspection / test records for pre-1970s welds and details of any girth weld anomalies picked up by ILI runs. This is likely to be issued over the coming summer.

❑ Line Walking

- ❑ A draft GPG for Line Walking is to be developed during 2016

❑ S-N Curves in Fatigue Analysis

- ❑ Advice on using F-N curves in fatigue analysis is to be proposed

Collaborative Research

- ❑ PRCI – cost of UKOPA membership was agreed as too expensive
- ❑ EPRG – a meeting was held to discuss options. A letter is to be drafted indicating a willingness to share data for mutual benefit under a non-disclosure agreement
- ❑ Newcastle MSc course – three subjects were agreed for discussion. Two of these projects have been picked up by Students.
- ❑ Strathclyde PhD course – contact has been made with Julia Race regarding the potential for PhD sponsorship. A proposal is currently being worked-up for consideration by UKOPA
- ❑ HSL composite repairs – discussion about UKOPA involvement has taken place. This currently looks like being prohibitively expensive

Document Development

- ❑ The following documents are ready for approval
 - ❑ Managing Pipeline Dents
 - ❑ Managing Pipeline Sleeves
 - ❑ Managing Stress Corrosion Cracking
 - ❑ Managing Reduced Depth of Cover

- ❑ The following are under development
 - ❑ PIWG strategy / framework
 - ❑ Managing and Mitigating the Impacts of Ground Movement

Questions?
