

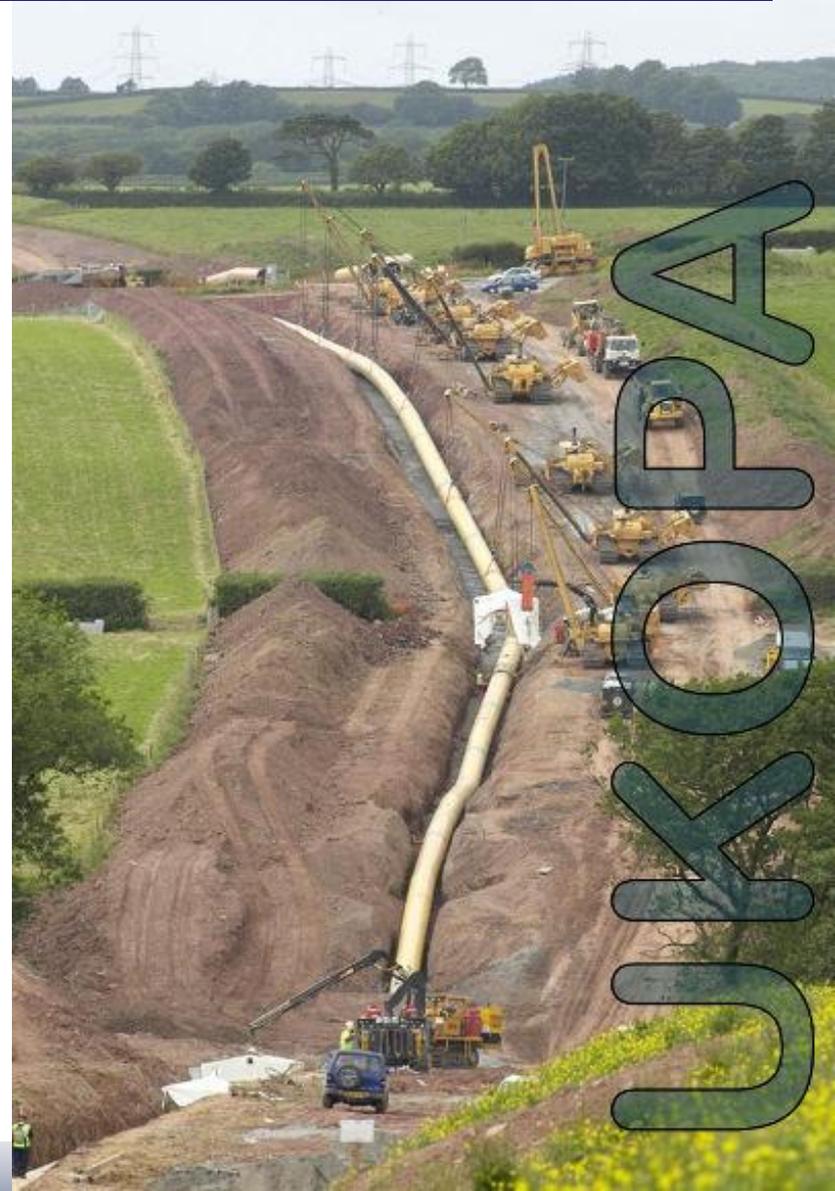
UKOPA

United Kingdom Onshore Pipeline Operators' Association

PIWG October 2024 Members' Meeting Update

Tim Rudd

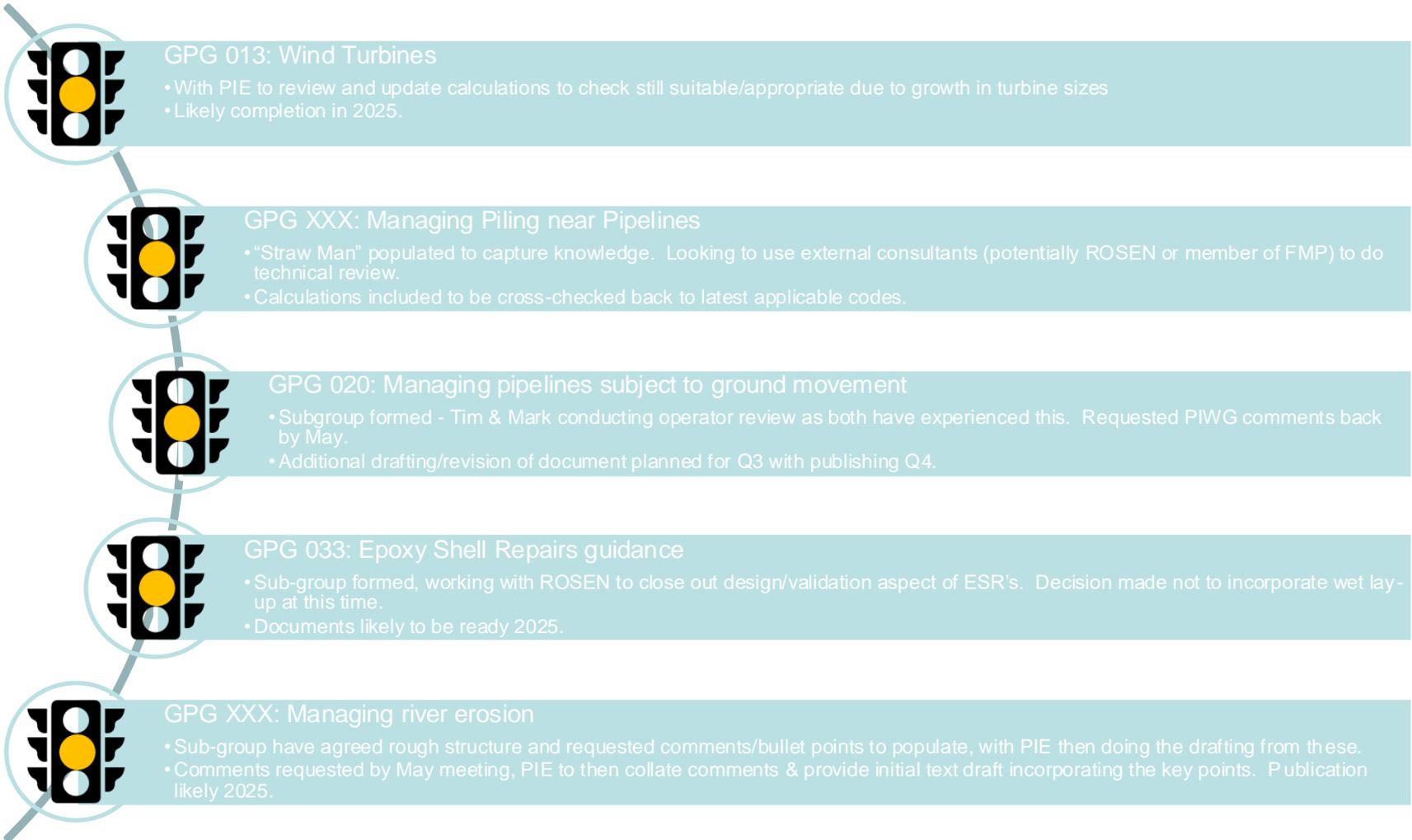
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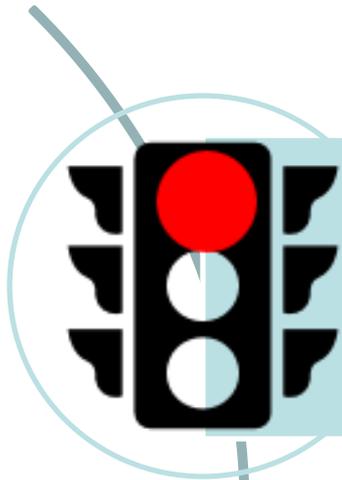
What have we achieved in 2024?

-  GPG 005: Managing Pipeline Sleeves
Document completed and sent to governance
-  GPG 019: Seismic Screening Assessment
Re-write and update completed, ready to go to governance
-  GPG 021: In-Line Inspection (ILI)
PIWG review and update completed, ready to go to governance
-  GPG 026: Verification of features identified by ILI
 - PIWG review and update completed, ready to go to governance

2024 works still underway

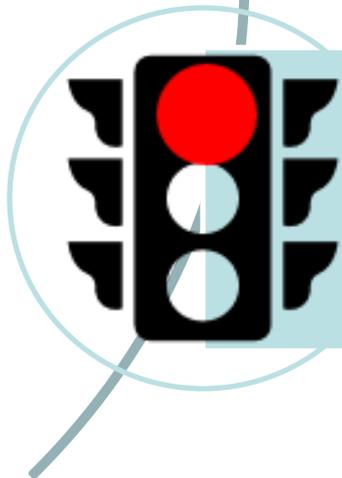


2024 Document works – Not yet started



TBN 009: Lower bound for required fatigue assessments of pipeline dents

- This was originally missed off 2024 work plan
- Plan to use external consultants/PIE to review validity, check references, and confirm if any updates needed to incorporate findings from weld quality projects



TBN YYY: Pig Trap PSSR inspection guide

- Liquid operators to pull together experience with pig trap inspection to produce basic TBN & WSE template
- Preliminary review done but drafting not yet started; likely to be 2025 project

2024 Budget Plan

Activity Description	Service Provider	Period of Approval	Expenditure (to date)							Comment	
			to be Approved in 2024	Approved previously	spent prior to 2024	May	Aug	Dec	Spend to date		Remaining
			(£k)	(£k)							
7 Pipeline Integrity WG			41.16	51.48	18.18				28.83	45.63	
7.1 Technical Secretariat Support to PIWG (PIE)	PIE		7.28			2.55	0.73		3.28		4.00 10 days (2.5 per meeting) + 2.5 days
7.2 Technical Support to PIWG (PIE)	PIE		13.10			3.37	0.73		4.10		9.01 18 days support
7.3 Groups	A Cosham		2.00						0.00		2.00 To be invoiced at the end of the year
7.13 Development of standard for epoxy shell repairs	Rosen		0.00	25.00	15.00				0.00		Richard Price and Morgan James are going to work with Rosen to bring this to a consultation
7.15 Weld Quality Project	Various	2018		20.00	1.95	0.21	4.71		4.92		Swansea university MSC inc student support, conference cost, expected to be £19K
7.22 Expenses (approximate)			1.50			0.65	0.17		0.82		0.68
7.29 Scoping GPG for piling and ground vibration	PIE			1.40		0.55			0.55		0.85 2 days for scoping work required
7.30 Development of GPG for piling and ground vibration (should this be moved to 2024)	tbc		0.00						0.00		Once scope agreed, external support may be required and expenditure approval will be submitted once quotes have been requested
7.31 Scoping Strategy for determining the life of sleeves (dependent on 7.12)	PIE			1.40	1.23	0.55			0.55		-0.38 2 days for scoping work required
7.32 Development of strategy document for the life of sleeves	tbc			3.68		6.46			6.46		tbc once scope is developed 5 days @ pie rate currently included
7.35 GPG013 Review and update	tbc		3.64						0.00		confirmation of support required but 5 3.64 days at PIE rate included
7.36 Flooding / River Erosion	tbc		3.64						0.00		confirmation of support required but 5 3.64 days at PIE rate included
7.37 5 year review of GPGs / TBNs (019 (PIE), 020 (WG), 021 and 026 (Ext))	various		10.00			8.17			8.17		Richard Espiner for ILI x2 guides (plus any additional support) plus contingency if external consultants 1.84 needed for any of the other guides

Weld Quality Project



Swansea
University
Prifysgol
Abertawe

- **MSc: Mechanical properties of vintage Seam Welds**
 - MSc student aims to finish project in December 2024
 - Final Thesis will be available after
 - Re-write and update of Weld Quality briefing notes in 2025
 - Conference papers in 2025?

- **PhD: Fatigue performance of pre-stressed vintage Girth Welds**

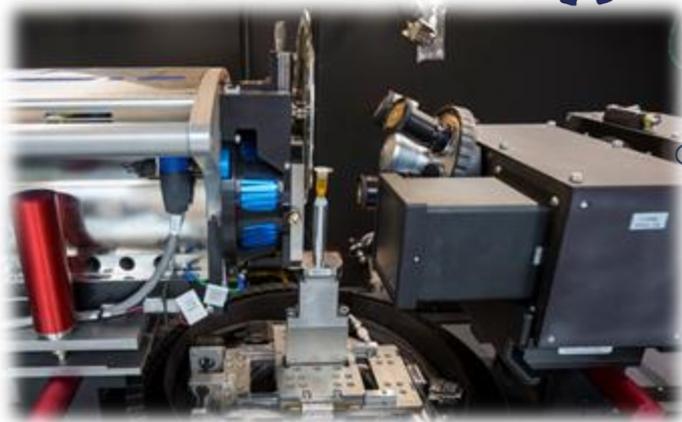
- Student recruited, starting late October 2024
 - Total project spend circa £19k/yr for 3 years
 - Opportunity to further tailor research to areas of interest as literature review is completed
 - Do we want to try and include references to Hydrogen?

Please send across samples!

- Ideally looking for GW samples at least 1m long (longer fine), especially those containing corrosion defects or dents.
- Historical (pre-1972) preferred if possible.

Where to send samples:

- Mainline Pipeline Ltd, Seisdon Pump Station, Ebbstree Road, Seisdon, WV5 7EY

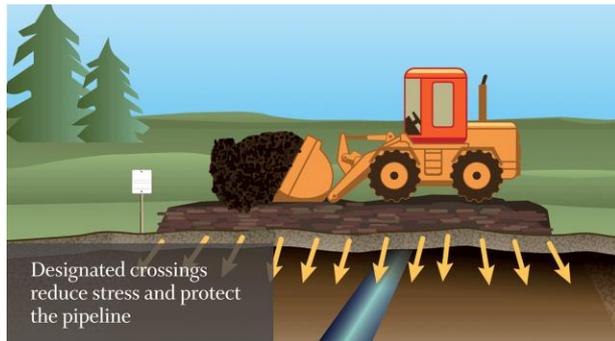


Loading assessment tool



- Potential new project – do members see value in pursuing?
- Do we see value in creating a loading assessment tool that could be used by UKOPA members
 - Based on Valero tool demonstrated yesterday
- Do members want UKOPA to develop 'standardised' loading protection slab designs?
 - Similar to impact protection slab design, but for designated pipe diameters, load cases and ground support situations
- Should we create a common/standard minimum GI specification?
 - Site conditions would vary so spec would require tweaking but it would set out common minimum requirements
 - Should this be supported by a common/standard minimum trench backfill specification?
- Should these be delivered by PIWG or another workgroup?

<https://vimeo.com/527536010>



How does PIWG fit into UKOPA strategy?



- Sustainability of Pipeline Operations
 - Identify and progress sustainability initiatives
 - Ensure that reducing carbon footprint is considered in the development of good practice guides
- Management of current risks associated with pipelines
 - Proactively develop pipelines integrity initiatives to ensure primary containment
 - Development of good practice and organisation of associated seminars
 - To share knowledge and good practice in relation to pipeline integrity between UKOPA members to mitigate the loss of containment
 - To proactively identify emerging threats to pipeline integrity, progress research where appropriate and develop practical guidance for pipeline operators and other stakeholders
- Consideration of future pipeline risks
 - Develop good practice to mitigate against identified risk
- What specific outputs has PIWG been tasked with delivering?
 - Produce a plan for the development of sleeve strategy document (PIWG) and update GPG005 Management of Sleeves – GPG 005 updated and further re-write underway for future years
 - Completion of epoxy shell repair guidance – underway, likely to be 2025
 - Commence next MSc welding project with Swansea University – On Target
 - Development of GPG for piling and ground vibration – Underway, completion likely in 2025
 - Review and update GPG013 - underway
 - 5 year review of GPGs 019, 020, 021 and 026 – 3 out of 4 completed, on target to close out by year-end