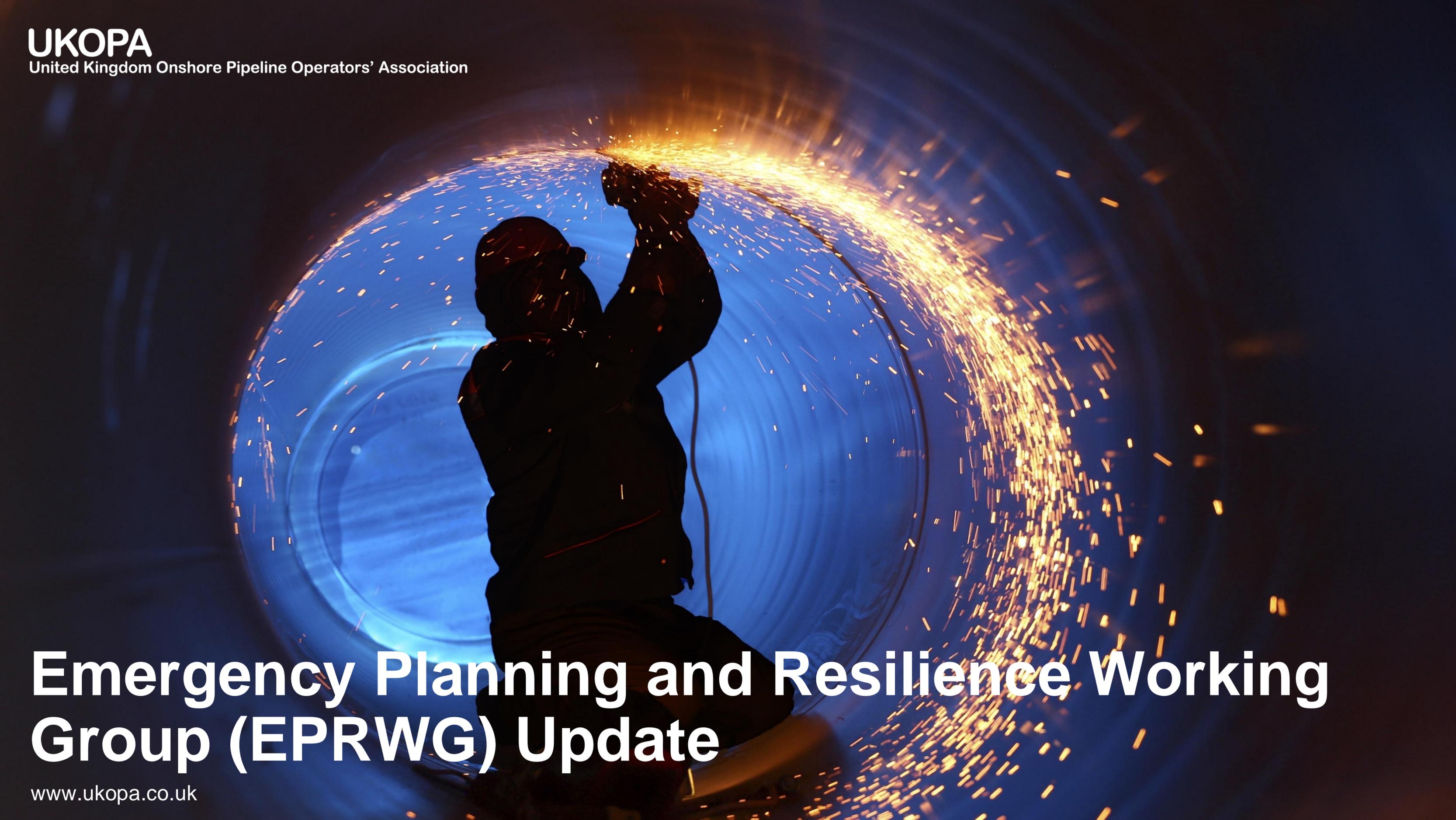


**UKOPA**

United Kingdom Onshore Pipeline Operators' Association



# Emergency Planning and Resilience Working Group (EPRWG) Update

[www.ukopa.co.uk](http://www.ukopa.co.uk)

## IS IT WORKING FOR OUR MEMBERS?



- c15 Operator Representatives
- Thankyou - Thomas Hawksworth - Sabic
- Welcome - Freya Matthews – Cadent

**What have we delivered so far?**

# Pipeline Emergency Response Officer (PERO)

- Developed by UKOPA for UKOPA Members
- 2-day course including meals and accommodation
- Mixed operator course to aid sharing of learnings
- Thank you and good luck Donal!
- Welcome Andy – Good Luck to Tony 😊

Date	Position
13 <sup>th</sup> / 14 <sup>th</sup> March	Fully booked
16 <sup>th</sup> / 17 <sup>th</sup> April	Fully booked
1 <sup>st</sup> / 2 <sup>nd</sup> May	Fully booked
15 <sup>th</sup> / 16 <sup>th</sup> May	Fully booked
3 <sup>rd</sup> / 4 <sup>th</sup> July	Fully booked
17 <sup>th</sup> / 18 <sup>th</sup> September	Fully booked
22 <sup>nd</sup> / 23 <sup>rd</sup> October	Fully booked
13 <sup>th</sup> / 14 <sup>th</sup> November	Fully booked
3 <sup>rd</sup> / 4 <sup>th</sup> December	Fully booked

Focus on interaction between industries

Over 1100 trained delegates since 2010

Training built into operator competence

# Good Practice Workshop



- Agenda Included:
  - Real life incident learnings (Above Ground Installation, Cyber and Pipeline)
  - Local Authority / HSE perspective on how they work
  - A look ahead to possible impacts of changing fuels to our pipeline structure
  - Cyber Resilience & threat landscape
  
- A great success and should be held regularly
- Future ideas on themed workshops for the future
- Use of templates / best practice guides with Local Authorities for Emergency Planning function

**UKOPA'S**  
EMERGENCY, RESILIENCE  
AND GOOD PRACTICE  
SHARED LEARNING  
EVENT

**16 April 2024**  
09:00am - 16:30pm  
Refreshments & Lunch Provided

**Programme to cover areas such as:**

- Learning from emergency planning exercising and incidents
- A Local Authority perspective on how they work with pipeline operators
- Cyber resilience
- A legal insight of emergency responses
- An Operator's experience of third party protests and disruptive activities
- Looking ahead to possible impacts of changing fuels in our pipeline infrastructure

**This is a FREE to attend event and ONLY for UKOPA Members**

**Interactive and informative event to discuss and share experiences**

Venue: Lowerhouse Lane Widnes, WA8 7DZ  
W3Ws chops.plank.palms

dcbl stadium Halton

**Secure Your Place**  
secretary@ukopa.co.uk

# Environmental Discussion

Produce and maintain Good Practice Guides

- 4 Scenarios
  - Notification - High chance of flooding event.
  - Flood Event – Preparation & Support
  - Flood Event - Catastrophic Failure of Asset.
  - Recovery
- C10 Areas of interest to be assessed
  - Inc: Assessment, Communications, Support, Mobilisation Engagement Recovery etc.
- Good working draft
  - Chris Rogerson Technical Author – 10<sup>th</sup> October

**Signposting – What to look for, how to remediate**

*As discussions had taken place in a number of working group meetings regarding river erosion, flooding and associated issues, it was decided to hold a cross working group meeting to agree on a way forward for UKOPA that all of the working groups represented agreed upon – particularly with interlinked documents internally or with external stakeholders.*

**Screening – How to prioritise risk and where to focus**

- AF questioned where issues occur (bottom of riverbeds or riverbanks). Although both occur most issues with riverbanks
- AMac suggested need to consider:
  - o different modes of
  - o identify threats/pr
  - o how to inspect.
  - o Also need to know compared to where
  - o How to trend for d
- RP – dredging is a threat they are used and mana
- Suggested the need for FARWG)
- JJ explained issues with what we can do to remed personnel from pipeline
- CR asked about scope a should be included (AF), potential for damage, bu
- AMac need for assessm for gas and liquid and tin
- JM outlined EPRWG th Emergency services), gd
- AF potential for consider if failure do happen (gas information is therefore r
- AC noted that there were predictions and modellin some modelling on this c screening tool to Fridolin so can't be shared
- FJ/AF the report was ass options. Trying to pin do flooding severity, return predict erosion based on
- AMac highlighted need if etc. Also flooding and pi
- TR agree with need for c
- RP agreed with this, noti And flooding issues shou comms/valves/data flow
- AO include remediation options i.e. rock perms s
- AC clarification on floodi damage/flooding – buoy

**Emergency – How to react & Provision of an emergency response**

**PIWG email discussions regarding river erosion / flooding**

**GNI issues**

We're currently at the start of our first one of these in recent memory – the last time we had any River Bank issues was back in 2013, and by the looks of it, the issue we had in 2013 was far more gentle and slow. The current situation has literal meters of river bank being washed away downstream of our pipeline during heavy rain events, and the eroded bank is now about 15m "away" from us, a loss of about 10m since last summer.

The pipe crossing is located at a very geomorphologically active site. We've overlain some recent aerial imagery with the first edition OS map (dated late 1800s) and there are, in places, in excess of 100m of lateral river channel change.

The process we're currently going through is notionally planned as:

- Desktop analysis – looking at the full suite of old maps, aerial photographs, and LIDAR data – to ascertain the historic rates and patterns of river channel change
- Topographic survey of the river channel position, and cross-sections within the river
- Hydrological analysis and stream power calculations
- Site visit
- Modelling of the in-channel flows – to ascertain likely locations, rates and patterns of future river channel change
- Meeting with SEPA to discuss the history of the site and options for intervention
- Development of a conceptual design, including engagement of contractors
- Review of recommendations/proposed way forward

**Valero**

We're in a similar boat, this is the first time we have had to deal with something like this (I believe previous operator did in late 1990's). For what we're doing, we identified an area of exposed pipeline during manual linewalk. As part of planning repair we wanted to try and estimate rates of bank erosion. First thoughts were to try satellite imagery to measure the river width and get a feel for erosion rates, but given the varying quality of available info and differences in vegetation cover this proved impossible to get an accurate result. Instead, we found that the LIDAR datasets worked well – these can be purchased as shapefiles from sources such as Ordnance Survey. Using LIDAR lets you see through the vegetation to the ground beneath, so gave us a reliable data set.

We're now planning to roll out a check across the network of all river crossings to try and highlight any change in river orientation over time that might otherwise have gone unnoticed. We're looking to use the LIDAR data for this, but also as part of our ongoing line walks will take a geotagged photo from a known reference either side of the bank for visual comparison in the future, and will also look to get an overhead drone shot, again for comparison. The final action we're taking is to run through all known ditch crossings and

**Key Document to be developed**

**Cross Working Group Meeting (PIWG, FARWG and EPRWG)**

- Signposting – What to look for, how to remediate – PIWG
- Screening – How to prioritise risk and where to focus – FARWG
- Respond & Recover – How to react / emergency response, EPRWG

## Document GPG Review

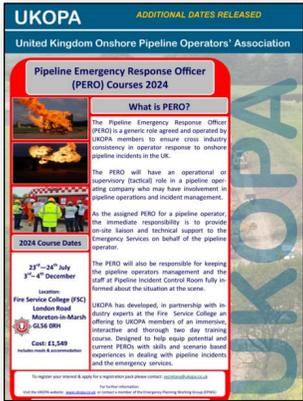


### Review Completion - 4 General Practice Guide's

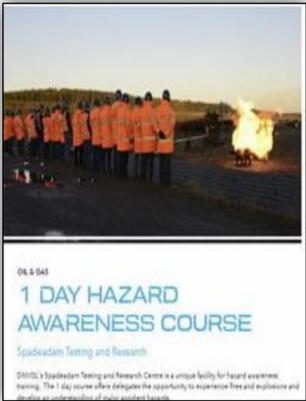
- **GPG/10** - MAHP Emergency Response Plan: Guidance on Testing
- **GPG/11** - MAHP Emergency Response Plan: Emergency Plan Template
- **GPG/12** - MAHP Emergency Response Plan: Testing and Exercising Pro-forma
- **GPG/16** - Pipeline Hazard Distances
- **TBN/12** - A short review of UK regulatory guidance in the development of and testing of pipeline emergency plans
  
- Increased Joint Emergency Services Interoperability Programme (JESIP) language for consistent use with Local Authority and emergency Services
- Removal of “exclusion” zones and use of cordon Terminology.
- **GPG/11** - Rebuilt to reflect good practice across emergency planning landscape.
- Operators working with HSE on proactive plan testing and LA interaction

# How Can We Improve?

## Whats Next?



- PERO Course Refresh
  - Stationary / Handouts
  - Content (including updated GP guide advice)
  - AI learning – Replacement of DVD learning



- Create and schedule - Hazard Awareness Course
  - Update to the theory sections to reflect learnings from “real” operator incidents
  - Align and expand on current PERO course thinking
  - Course trial during 2025
  - Course to run biannually with Good Practice Workshop



- How do we build best practice Cyber Resilience ?
  - Good Practice Guide ?

**Thank You**