

UKOPA

United Kingdom Onshore Pipeline Operators' Association

Emergency Planning & Resilience Working Group

John Madden
February 2024

www.ukopa.co.uk



What do we do ?



Current membership



EP&RWG - 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
- Reviewing alternative venues
 - Refresh Course material

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

EP&RWG Best Practice Workshop



Share Knowledge and Best Practice

- Best Practice Workshop
 - 16th April 2024
- Agenda to Include
 - Real life incident learnings (Above Ground Installation, Cyber and Pipeline)
 - Local Authority perspective on how they work
 - A legal Insight of emergency response
 - A look ahead to possible impacts of changing fuels to our pipeline structure
 - Cyber Resilience & threat landscape

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

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

Interactive and informative event to discuss and share experiences

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

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 Operators experience of third party protests and disruptive activities
- Looking ahead to possible impacts of changing fuels in our pipeline infrastructure

Venue: Lowerhouse Lane Widnes, W48 7DZ
W3Ws chops.plank.palms

Secure Your Place
secretary@ukopa.co.uk

dcbl stadium
Hutton

EP&RWG – Environmental Discussion



Produce and maintain Best Practice guides

- 4 Scenarios
 - Notification - High chance of flooding event.
 - Flood Event – Preparation & Support
 - Flood Event - Catastrophic Failure of Asset.
 - Recovery
- Areas of interest to be assessed
 - Assessment – what has happened
 - Communications – how is this managed and with whom
 - Support – what does the operator need / what are other stakeholder requirements
 - Mobilisation – Location considerations
 - Ongoing Incident Management
 - Recovery – timelines (difference between gas and liquid requirements)
 - Engagement with EA / met office (who else)
 - Upstream / downstream events and the difference type of response that might be required
 - What documents are there already out there for responding to flooding emergencies?

Signposting – What to look for, how to remediate

Screening – How to prioritise risk and where to focus

Emergency – How to react & Provision of an emergency response

PIWG email discussions regarding river erosion / flooding

GNL 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 local sections 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, as opposed to about 5m 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, tentatively stated 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 1900's). For what we're doing, we identified an area of exposed pipeline during manual inspections. As part of planning report 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 rate, but given the varying quality of satellites into and differences in vegetation cover this proved impossible to get an accurate result. Instead, we found that the LiDAR captures worked well – these can be purchased as chipfiles from sources such as Ordnance Survey. Using LiDAR lets you see through the vegetation to the ground beneath, so gives 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 photogram 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

3 Key Documents to be developed

Cross Working Group Meeting (PIWG, FARWG and EPRWG)

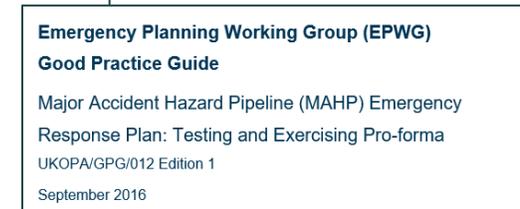
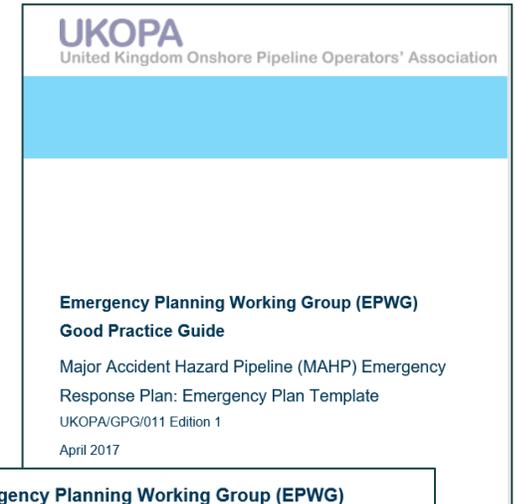
- Signposting – What to look for, how to remediate – PIWG
- Screening – How to prioritise risk and where to focus – FARWG
- Respond & Recover – How to react / emergency response, EPRWG



Review 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

All will be presented for acceptance by the WG in April



What's Next ?



UKOPA Environmental Report

This template is for UKOPA members to submit details of any routine incidents or abnormal activities they have occurred or it intended to occur in relation to the development of safety training and sharing of lessons and good practice.

All details submitted are in confidence and any published details involving the Operator will be subject to approval and necessary details will be subject to redaction.

All photos supplied with this template will be accepted and used if relevant. Alternatively, you will be required to provide a written consent for their use by UKOPA.

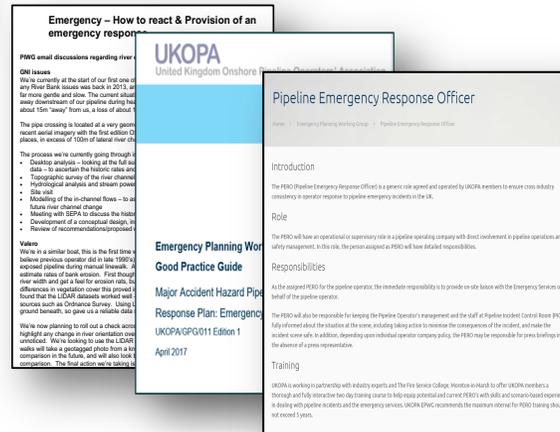
Type of activity	
Date	
Location	
Public interest	
Third parties	
Relevance to the pipeline operator	
Severity	
Risk and consequences	
Management response	
Prevention and mitigation	
Lessons learnt	

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“How can we help each other prepare for the next emergency ?”
Exercise & Emergency Updates



“How do we build best practice Cyber Resilience”



Emergency - How to react & Provision of an emergency response

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Pipeline Emergency Response Officer

Emergency Planning Work Good Practice Guide

Major Accident Hazard Pipe Response Plan: Emergency

“Increase support and advice for EMRWG members”

Emergency Planning & Resilience Working Group

Thankyou

John Madden
February 2024