

# UKOPA

United Kingdom Onshore Pipeline Operators' Association

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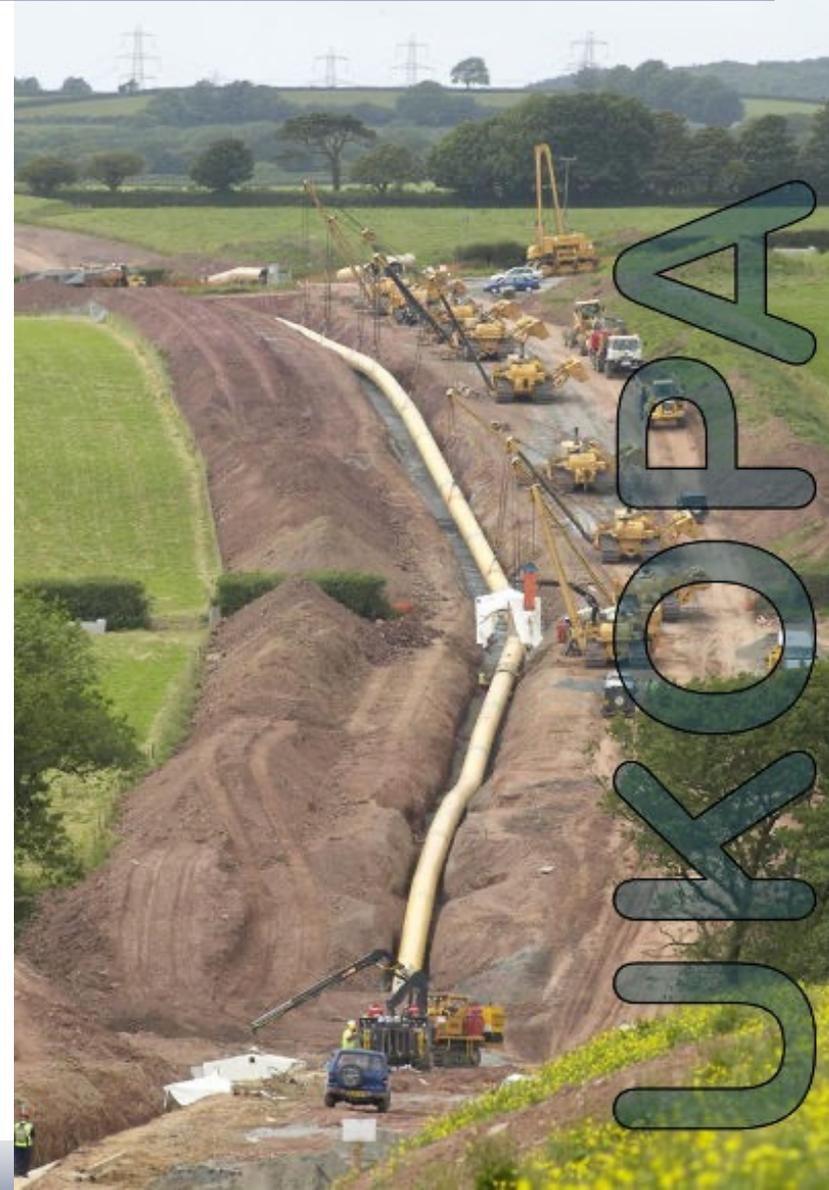
## UKOPA Members Meeting Update

Grant Rogers  
UKOPA Chair

VIA TEAMS

Tuesday 5<sup>th</sup> October 2021

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



# TEAMS Meeting Etiquette

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- For this session, please
  - Please ensure your **microphone is muted & webcam is off**
  - Use the chat facility to raise any questions during the session ... this will also allow us to get back to you with a response if we didn't have time to answer your question during the session

# Competition Law Reminder

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“This is a meeting of competitors and competition law must be strictly adhered to both during the meeting and any breaks. Discussion should be limited to the items on the agenda, which was circulated beforehand. There should be no discussion on sharing of commercially sensitive information such as price, costs, markets, investments. Should the discussion stray onto potentially sensitive topics you should object and insist that the discussion is immediately stopped.”

# GDPR Reminder

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Is everyone happy with their name being added to the minutes?

# Agenda

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- Board Update
- Working Group updates
- Members Sharing
  - Incidents / learnings
- Thanks & Close

# UKOPA Overview

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- UKOPA is an industry group comprised of UK onshore pipeline operators
- UKOPA exists to provide the recognised and authoritative view of UK pipeline operators on strategic issues relating to safety management, operations and integrity management of hydrocarbon pipelines. It seeks to effectively influence the development and implementation of pipeline related legislation and standards for the mutual benefit of all stakeholders
- Produces Good Practice Guides and Technical Bulletins and carries out research to support the industry

# UKOPA Organisation



## Chairman

PIE Secretariat

## Board of Directors

## Members

## International Associates

## Technical Consultants



# Board Update

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- May and October Board Meetings via MS Teams
- Board / BSI Meeting Via MS Teams (Sept 2021)
- May/June and Sept/Oct Working Group meetings via MS Teams
- UKOPA Webinars
  - GPG039 Drones (23rd September 2021)
  - Additional Webinars to be scheduled

# Board Update

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- **Member update**
  - Centrica-SL resigned – currently 30 members
  - CLHPS now Exolum
  - Total now Prax
  - Drax now VPI
- **UKOPA Finances**
  - 2022 Membership Fees £8300
- **Future events**
  - 23<sup>rd</sup> November HSE / Board Liaison Meeting
  - 7<sup>th</sup> December Board Financial Meeting
  - 15/16<sup>th</sup> Feb 2022 Board and Members Meeting
  - 17/18<sup>th</sup> May 2022 Board and Technical Seminar
  - 11/12<sup>th</sup> Oct 2022 Board and Members Meeting

# Board Update

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## ○ UKOPA Board

- Peter Davis to retire from UKOPA / BPA
- Clive Zanker (BPA) and Antonio Caraballo (Ineos FPS)
- Grant Rogers to continue as Chair from Feb 2021-23
- Darren Thomas agreed to take on the role as Vice Chair and will become Chair from Feb 2023

## ○ UKOPA Strategy

- New Corrosion Prevention (CPWG) established from June 2021
- Next revision and update with WG Chairs in February 2022
- Shared learning – PSWG to renew focus in this area

# Board Update

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- **BSI use of GPGs**
  - Agreement in principle for use in PD8010 revision
- **UKOPA Chairs Award**
  - IWG nomination of Margaret Hamilton (SGN)
- **UKOPA Newsletter**
  - Publication before Christmas 2021
- **UKOPA Future Consideration**
  - Hydrogen updates (FutureGrid, LTS Futures, etc)
  - Hydrogen/other database

# UKOPA

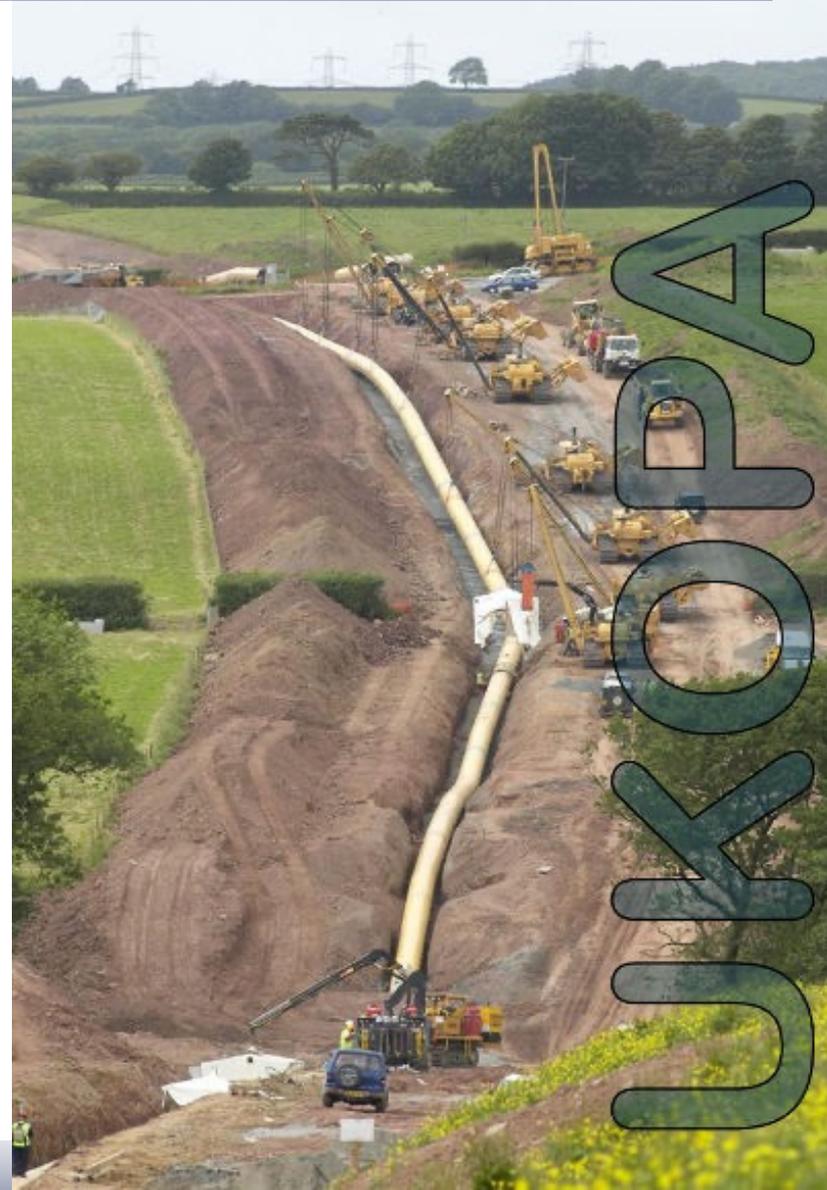
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## CPWG

Simon Joyce  
CPWG Chair

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



# Introduction

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- In late 2020 the Gas Distribution Networks as raised a concern that corrosion prevention issues were not getting the focus they warranted within the pipeline industry.
- The networks approached UKOPA to look at setting up a working group to manage corrosion related issues that affect all pipeline operators.
- This is an opportunity to pool experience and to work together to provide better understanding on corrosion prevention.
- The board considered the proposal and agreed the new group could be formed.

# CPWG Aims

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- Act on behalf of UKOPA Members as the expert body on Corrosion Prevention and electrical interference issues. With focus on Cathodic Protection Systems, coatings and for internal/external corrosion mechanisms.
- Support, on behalf of member companies, the development and acceptance of appropriate good practice for corrosion management.
- Provide the expert point of contact for UKOPA internal and external communications on corrosion issues.
- Provide a formal UKOPA interface with HSE for discussions on corrosion related issues.
- Provide a point of focus within UKOPA for commissioning and progressing technical work related to corrosion prevention with external expert bodies and technical organisations including Universities.

## CPWG Set Up

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- Chair appointed.
- Terms of reference agreed.
- Workplan decided.
- Technical consultant appointed.
- Initial meeting started.

# Technical Consultant

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- 4 nominations were provided to the group.
- Technical consultants CV's and past experience was discussed within the group.
- All members on the group voted for their preference.
- John Dyson was nominated as the group CP technical consultant.

# Programme of Work



- An initial programme of work was agreed:
  - Long-term
    - CP Competency Guidelines - Help the industry with the level of competency for CP inspections/reviews/decisions
    - AC interaction Management TBN - Using the SGN Blackhillock incident to manage these issues and to review this with the HSE.
    - Review of CP inspection frequencies based on corrosion rates - Using data across the world/UKOPA corrosion data to review above ground CP inspection frequencies.
  - Short term
    - GPG for CP around Electrified Fencing - Using work from NGT to put a GPG for CP issues around electrified fences.
    - Network Rail Infrastructure Crossings Guide - Guidance for operators based on the recent issues with electrified railway lines.

# Current Membership

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- |                                 |                 |
|---------------------------------|-----------------|
| 1. Simon Joyce                  | SGN (Chair)     |
| 2. Nikki Barker                 | PIE (Secretary) |
| 3. Ade Wathen                   | Cadent          |
| 4. Andy Middleton/Michael Dass  | NGN             |
| 5. Morgan James                 | WWU             |
| 6. Des Auld                     | Mutual Energy   |
| 7. Scott Crockart               | EPUKI           |
| 8. Jim Jarvie                   | Ineos           |
| 9. Barry Mackay                 | SGN             |
| 10. Peter Martin                | National Grid   |
| 11. Pablo Merino                | Exolum          |
| 12. Kevin O'Keeffe/Frank Smiddy | GNI             |

## Next Meeting Date

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- 25<sup>th</sup> November 2021.
- Members are welcome to join the working group.

# Questions?

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- Questions from the chat



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## EPWG

Andy Middleton

EPWG Chair

Presented by Andy Fuller

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## ○ 10 members

- Andy Middleton Northern Gas Networks (Chairman)
- Nikki Barker UKOPA (PIE Secretariat Support)
- Paul Boyle Shell
- Martin Burrows National Grid
- David Butterfield Exolum
- Andy Fuller UKOPA (PIE Technical Support)
- Robert Greaves National Grid
- Thomas Hawkesworth Sabic
- Nicholas Spray Esso
- Adrian Peck/Dave Symonds Uniper
- Bob Wilkins National Grid
- Clive Zanker BPA

## ○ 3 x working group meetings in 2021

- 3<sup>rd</sup> February
- 26<sup>th</sup> May
- 29<sup>th</sup> September

## PERO (Pipeline Emergency Response Officer)

- Developed by UKOPA for UKOPA Members
- No reductions as run at costs
- 7 courses in 2021 costing £1151
- Bi-annual course audit taking place in November
- Dates for 2022 currently being agreed (with a small increase in cost expected)
- Contract renewal from 2023 onwards



# PERO (Pipeline Emergency Response Officer)



<b>March</b> <b>2<sup>nd</sup>/3<sup>rd</sup></b> <b>Fully Attended</b>	<b>April</b> <b>13<sup>th</sup>/14<sup>th</sup></b> <b>Fully Attended</b>	<b>May</b> <b>11<sup>th</sup>/12<sup>th</sup></b> <b>Fully Attended</b>	<b>June</b> <b>23<sup>rd</sup>/24<sup>th</sup></b> <b>Fully Attended</b>
<b>September</b> <b>15<sup>th</sup>/16<sup>th</sup></b> <b>Fully Attended</b>	<b>October</b> <b>20<sup>th</sup>/21<sup>st</sup></b> <b>Fully Booked</b>	<b>November</b> <b>10<sup>th</sup>/11<sup>th</sup></b> <b>Fully Booked</b>	<b>November</b> <b>24<sup>th</sup>/25<sup>th</sup></b> <b>Fully Booked</b>

**Contact UKOPA (Nikki) to book your place**

## Reminder of guidance document produced for Senior Management (available in the members centre) detailing

- Roles and responsibilities
- Stakeholder interoperability
- Competency
- PERO course overview

### UKOPA

United Kingdom Onshore Pipeline Operators' Association

#### **UKOPA Report**

Understanding the role of the Pipeline Emergency

Response Officer (PERO)

UKOPA/RP/2020/02 Edition 0.5

September 2020

# Hazard Awareness Course



- 2<sup>nd</sup> Course planned for September 2021, but earlier this year was agreed to be postponed until 2022
- Currently in discussion with DNV for a proposed new date in May / June 2022
- Will advertise the course at the PERO courses in 2022

# What's Next and Future Plans

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- Final draft of GPG036 'Managing developments and works in close proximity to pipelines' to be sent to the governance group for approval
- New GPG for preparing for and managing the effects of flooding – volunteers being sort for a subgroup to work on this
- Consideration on how hydrogen could affect emergency planning provisions
- Ongoing development of PERO and Hazard Awareness Courses
- Emergency Planning Good Practice Workshop – EPC, York (potential date of September 2022)

# Question



- Does your organisation struggle to obtain permitry to work on your pipelines in a timely manner from external stakeholders e.g. Network Rail, Environment Agency, Canal & Rivers Trust?
- If yes, should UKOPA consider engaging in stakeholder liaison to improve this?

# EPWG – 2022 Schedule

Event	Date	Venue
EPWG Meeting 1	2 <sup>nd</sup> February	TEAMS
Hazard Awareness Course	April / May 2022 (TBC)	DNV Spadeadam, Cumbria
EPWG Meeting 2	25 <sup>th</sup> May	Venue, TBC
EPWG Meeting 3	28 <sup>th</sup> September	EPC, York
Emergency Planning Workshop	29 <sup>th</sup> September (TBC)	EPC, York

# Questions?

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- Questions from the chat



# UKOPA

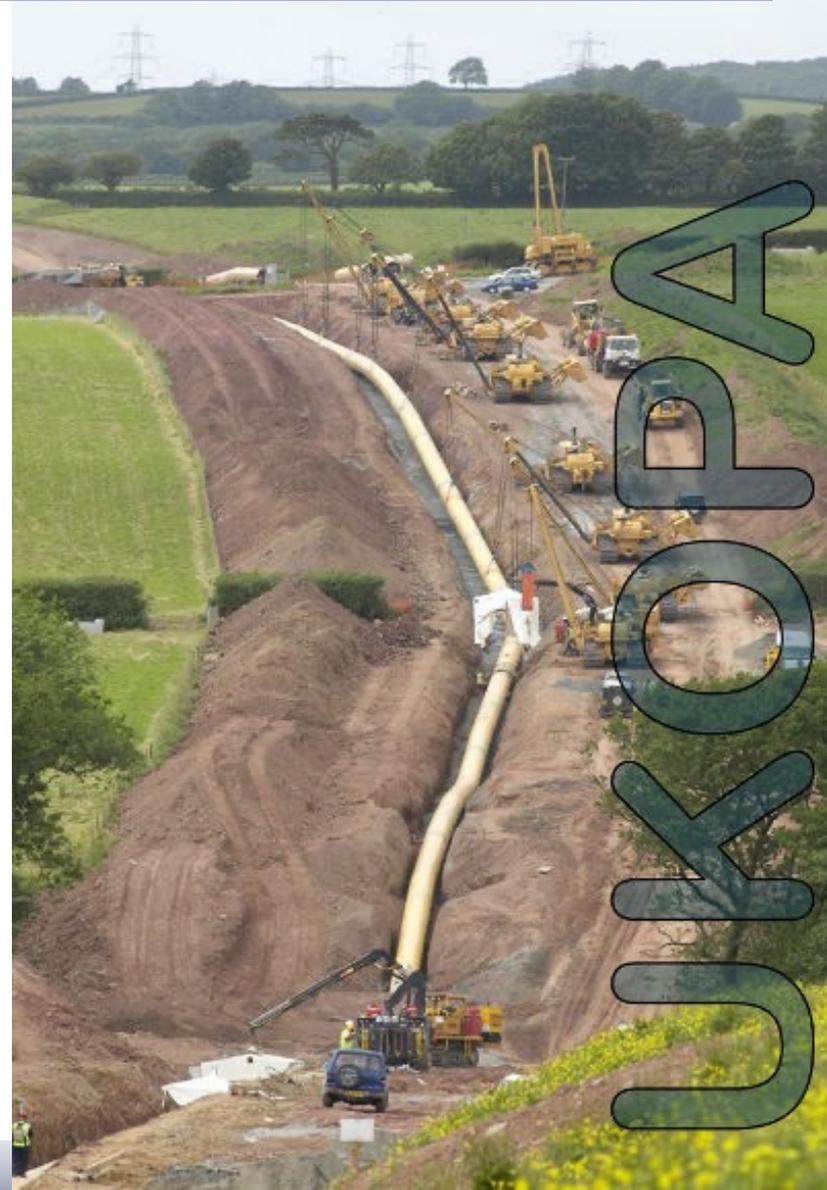
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## F&RWG

Simon Joyce  
F&RWG Chair

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# FARWG – Current Membership

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- |                                      |                        |
|--------------------------------------|------------------------|
| 1. Simon Joyce                       | SGN (Chair)            |
| 2. Nikki Barker                      | PIE (Secretary)        |
| 3. Ryan Bentley                      | Cadent                 |
| 4. Kristina Brazenaite               | Northern Gas Networks  |
| 5. Dave Brown                        | Essar                  |
| 6. Daniel Dowling                    | Gas Networks Ireland   |
| 7. Daniel Milne                      | Valero                 |
| 8. Darren Cushen                     | Wales & West Utilities |
| 9. Stephen Humphrey                  | Exolum                 |
| 10. Fridolin Jenny                   | Swissgas               |
| 11. Graham Pailor                    | Sabic                  |
| 12. Steve Potts                      | National Grid          |
| 13. Richard Price                    | BPA                    |
| 14. Nick Procter                     | CATS                   |
| 15. Sean Patterson                   | Ineos                  |
| 16. Pamela Colgan                    | Mutual Energy          |
| 17. <i>Karen Warhurst/Mike Acton</i> | <i>DNV GL</i>          |
| 18. <i>Graham Goodfellow</i>         | <i>PIE</i>             |

# Summary

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- **2021 Meetings:**
  - 12<sup>th</sup> January – Virtual Meeting
  - 4<sup>th</sup> May – Virtual Meeting
  - 7<sup>th</sup> September – Virtual Meeting
- **Key activities in 2021:**
  - Develop TBN/GPGs.
  - Leak & Fault Database Update.
  - Product Loss 2020 report.
  - TD2 update
  - Review of FARWG terms of reference in line with the board strategy.

# Good Practice Guides



Good Practice Guides		Complete	Progress
1	GPG Environmental Risk Assessment for Pipelines.	30%	Reduced scope being progressed
2	GPG for Management of Works Near HP Pipelines	95%	Collaborative GPG with the EPWG
3	Drone Surveillance	100%	Completed

# TBNs



	Technical Briefing Note	Complete	Progress
1	Oil Pipelines Drain Down Study	90%	Draft with Graham Goodfellow and Richard Price before FARWG review.
2	Managing Encroachment & Societal Risk for Oil Pipelines	50%	Ongoing

# 2021 FARWG Strategy & Future Work



- Feedback from to FARWG from members and the board strategy is part of the group's agenda.
- Discussions within the group for other key areas of focus.
  - Screening tool for TD/1 Ed1 proximity infringement
  - GPG/TBN on counting population densities
  - H<sub>2</sub> and CO<sub>2</sub> supplements to TD/2
  - AGI QRA Methodology

# UKOPA Product Loss Incidents and Fault Report



- 2019 report completed and on the website.
  - The overall failure frequency over the period 1962 to 2019 is 0.204 incidents per 1000 km.year, which is lower than the previous report covering the period from 1962 to 2018 (0.208 incidents per 1000 km.year). The overall trend continues to show a reduction in failure frequency.
  - The failure frequency over the last 20 years is 0.075 incidents per 1000 km.year. For the last 5 years the failure frequency is 0.099 incidents per 1000 km.year, whilst in the previous report this figure was 0.100 incidents per 1000 km.year (covering the 5 year period up to the end of 2018).
  - External interference followed by external corrosion are the highest causes of product loss since 1962.
- 2020 report is now being prepared and your FR1 data is required.

# The Use of Drones

- A cross working group collaboration to introduce guidance based on the new legislation for drones was prepared this year.
- GPG completed and will help operators to understand the requirements.
- A rollout webinar carried out on 23<sup>rd</sup> Sept with Joff Chandler from 360 Above.

Classified as Internal

## Photography



- New rules, new uses
  - Picking the correct class of drone can allow operations over uninvolved people.



Classified as Internal

## What can we use drones for?



- FARWG are involved in the update for IGEM/TD/2.
- Main updates:
  - Revised Parametric Study for External Interference – This is to review the reduction factors for design factor and wall thickness which can be used in estimating the failure frequency due to external interference (Fig 8 & 9).
  - Revised Historical Product Loss Data Analysis - This is to review the failure frequencies due to external corrosion vs wall thickness and material & construction defects to update Tables 6 & 7 in TD/2.

# FARWG Ongoing Agenda Items

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- Land Use Planning issues.
- Take key points from the FARWG review and implementation.
- Hydrogen – Regular updates at the meetings.

## Meeting Dates

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- 11<sup>th</sup> Jan 2022
- 5<sup>th</sup> May 2022
- 13<sup>th</sup> Sept 2022
- Members are welcome to join the meeting.
- Darren Cushen will be the new FARWG chair from the January meeting onwards.

# Questions?

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- Questions from the chat



# UKOPA

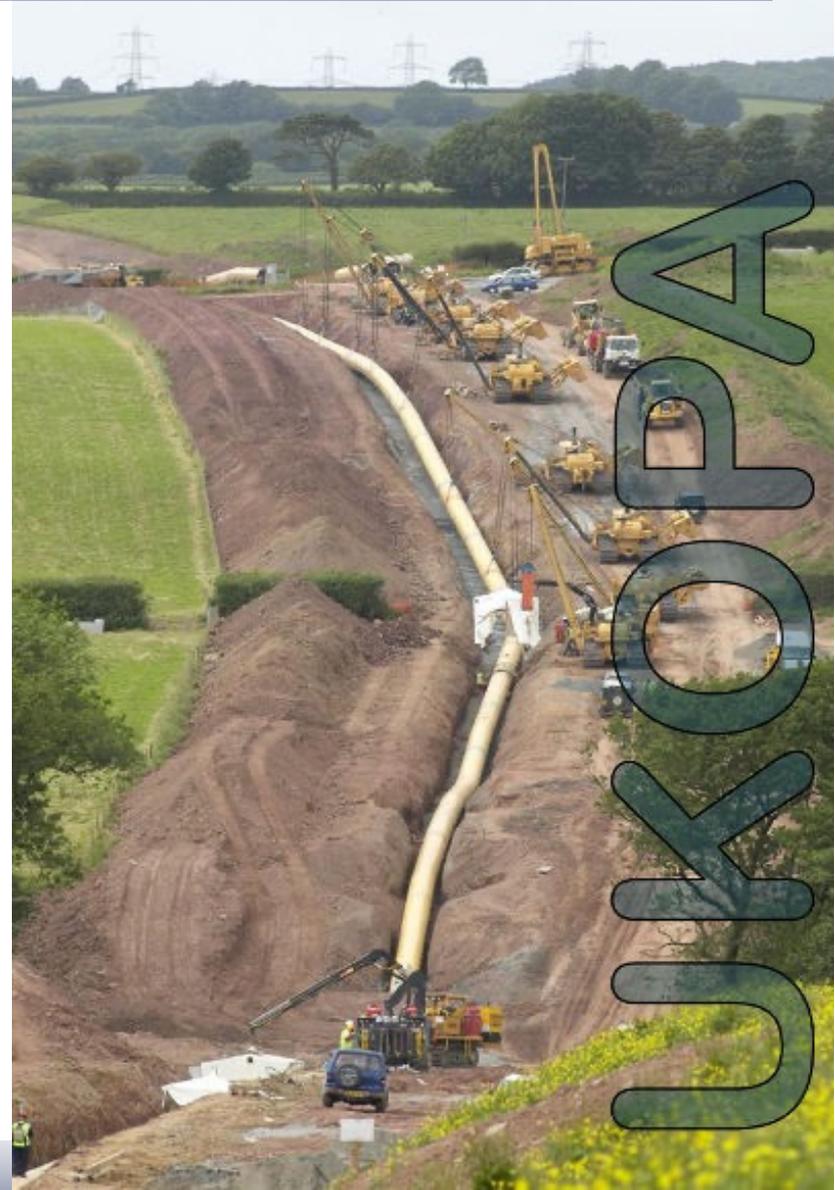
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## IWG Update

Phil Taylor  
IWG Chair

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



# Update

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## 2021 Work Programme – Update

- 2020 Infringement Report
- Working with Agricultural Colleges
- New UKOPA Working in the Vicinity of High Pressure Pipelines Safety Video
- Safety Briefings

## Last Meeting

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- Largest number of companies represented at a working group
- Only group to have a regular HSE representative
- Last meeting 14<sup>th</sup> September – HSE presentation about Webapp

# 2020 Infringement Report

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- Delay in publishing 2020 report but should now be on members area
- Objective remains to receive data throughout year or by the end of January 2022
- Trends remain landowners pose the greatest risk

# Working with Agricultural Colleges

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- Objective to integrate a learning module with the next generation of people working in agricultural field or likely to encounter pipelines
- Course content pitched to Landex (who represent 36 colleges across UK)
- Landex happy to host module and currently module being prepared for college platform.
- Aim to make course part of syllabus and potentially member groups presenting course to local colleges.
- Thanks to sub group members INEOS, SGN and BPA

# Updated Safe Working near pipelines video

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- Final version produced
- Plan to share with UKOPA members for any final comments.
- Aim to launch November 2021

# Safety Alerts

Another reminder to submit **SAFETY ALERTS** please!

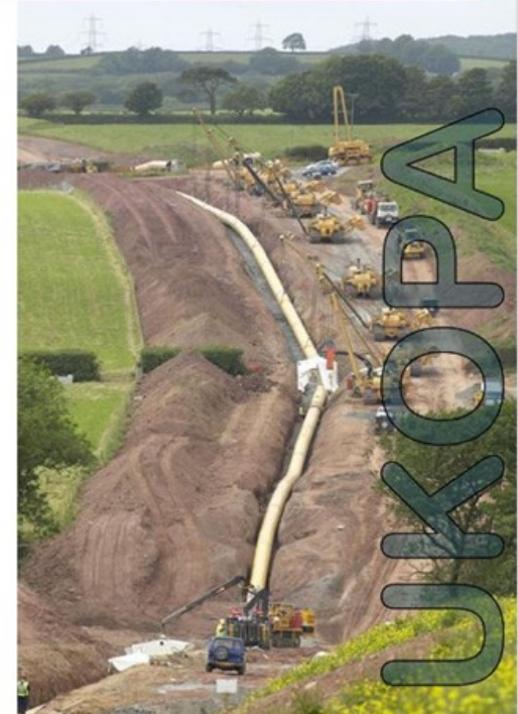
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**UKOPA SAFETY  
ALERT**

**BPA UPLX  
2020/11**

**28<sup>th</sup> February 2020**

This safety alert identifies issues, occurrences or incidents from the UKOPA membership. All content is for information and guidance, it should not be considered obligatory against the judgement of Pipeline Owners/Operators/Contractors.



# Questions?

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- Questions from the chat



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## PIWG

Tim Rudd

PIWG Chair

Presented by Nikki Barker

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# PIWG Update – Focus Areas

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- Joint projects with other Working Groups
  - Drones Subgroup
    - Joint project with FARWG (funded from FARWG budget)
    - Successful publication of GPG039 – UK Drone use and legislation
    - A number of PIWG members also attended the roll-out webinars and discussion groups
  - Environmental TBN
    - Working jointly with FARWG subgroup to look at providing UKOPA guidance for Environmental Risk Assessment
- Completed documents - GPG 27/31 - AC Corrosion & DC Corrosion
  - Signposting TBN documents' for AC corrosion & DC Interference completed and awaiting publishing/upload to Members area
- Pipeline Sleeve Project
  - Chris Lyons progressing this project to evaluate how/if corrosion rates differ under sleeves. Aim to complete this analysis by end of Q4 2021.
    - Thanks to all operators who have provided data – now have good cross-section of Gas and Liquid lines, but would encourage any that haven't provided data to do so.
    - Preliminary results indicate substantially higher incidents of corrosion beneath sleeves than elsewhere
    - Further work required to differentiate defect types, whether internal/external, sizes of defect etc.
  - Project utilises a Macro to identify pipeline sleeves in ILI runs (GE/PII and ROSEN) and compare features beneath sleeves with those outside
    - Additional work/development of Macro also identified after Operators have trialled in more scenarios

# PIWG Update – Focus Areas

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- **Weld Quality Project**
  - Further samples from current cut-outs being sent to Ambergate in preparation of future potential research. No university collaborations or lab work planned for 2021
    - As always, please send us your cut-outs!
  - Subgroup set up to discuss next stages
    - Meeting on 26<sup>th</sup> Oct – please volunteer!
  - Potential switch of focus to studying vintage Seam Welds for second part of this study
    - Do operators believe this would add value?
- **Review of faults on non-piggable pipelines**
  - A simple model has been produced to estimate the number of ‘missed faults’ on non-piggable pipelines. This model currently contains a number of assumptions and simplifications that are subject to further refinement.
  - PIWG have completed initial analysis, further development of model needed to fully develop probability of failure models for piggable and non-piggable pipelines and report the findings.
- **ESR Strategy**
  - ESR Vendor Qualification documents developed by ROSEN, currently under test by John Ferrari/ESSAR
  - Still keen for other vendors and users to try in earnest
- .

# Ongoing Work in 2021

- **GPG 001 Management of reduced depth of cover**
  - Expected to just be an editorial updated
    - Subgroup meeting on 11<sup>th</sup> October.
    - May be of particular interest to FARWG or IWG members also?
- **GPG 004 Management of pipeline dents**
  - Update/revision planned to take account of operator experience and any incidents – INEOS FPS have agreed to input into a review
    - Subgroup meeting on 25<sup>th</sup> October
- **GPG 005 Management of pipeline sleeves**
  - Working with Chris Lyons & Barry McCay to update this document to take account of the current work on sleeves on unpiggable pipelines
    - Subgroup meeting on 2<sup>nd</sup> November
- **GPG 006 Impact protection slabs**
  - Requires update to include information on plastic slabs. Cadent and NG have agreed to provide information on work they have carried out in this area
  - As part of work we will work with IWG and FARWG and liaise with HSE to try and get credit for plastic slabs in Land-Use Planning scenarios.
    - Subgroup meeting on 12<sup>th</sup> October

# GPG's and TBN's – 2021 Work Plan

- **GPG 009 - Near neutral pH and high pH stress corrosion cracking –**
  - Update required to remove references to a specific European pipeline operator
    - Subgroup meeting on 1<sup>st</sup> November
- **GPG 034 Life of Temporary repairs**
  - Codes recommend inspecting 'temporary' repairs periodically – aim of this subgroup is to develop guidance on what to look for and the degradation methods to be aware of
    - Particular interest around legacy 'TEAM/Furmanite' type clamps – potential to model performance of resin over time and in contact with product.
    - Keen for members from additional groups if possible – so far only liquid PIWG members
    - Next meeting on 24<sup>th</sup> November
  - Depending on operator response may look at a 2022 student/university project.
- **GPG 033 Pipeline decommissioning and abandonment**
  - Questionnaire produced and circulated to PIWG members looking for any guidance documents/standards used when decommissioning old assets.
  - Currently working to update typical costs for decommissioning/grouting in situ to provide further guidance
  - Potential increased focus in this area:
    - A member has received a query from Ian Renshaw (HSE) as to what guidance was available in this area, and as such, this may become a focus for the HSE moving forward.
    - HS2 has asked other members to price for full removal of assets that interact with diversions

# Questions?

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- Questions from the chat



## PSWG Update

John Ferrari

PSWG Chair

Presented by Nikki Barker



- Meeting held on 1<sup>st</sup> June with 8 of the 14 members in attendance plus a shortened meeting on 21<sup>st</sup> Sept with a focus on Safety Alerts / Sharing of Learnings
- Difficulty delivering some of the objectives for the year given lack of alerts and not being able to meet in person
- Have however continued to represent UKOPA on the National Process Safety Forum
  - PSAT – detailed review of 2020 findings
  - Process Safety Work Areas – Behavioural Safety
  - Management of Change – pipeline checklist
  - Safety Alerts – how
  - Process Safety Forum

## PSWG (current) Remint

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- Conduct 2-yearly PSAT survey and prepare report
- To produce / update GPG and TBNs relating to process safety
- Review agree and publish safety bulletins (with a process safety bias), learnings and incident awareness raising

# Process Safety Work Areas

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- In order to identify future work areas, members were requested to identify key process safety concerns
- The issues raised were grouped and prioritised
  1. Process safety reviews
  2. Behavioural safety / human factors
  3. Safety culture & leadership
  4. Management of change (leadership)
  5. Process Safety KPIs
- A reminder that GPG035 - A guide to pipeline process safety studies and methodologies (1) was published at the end of last year

# PSAT update

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- PSWG members have carried out a high-level review of the output from the 2020 PSAT questionnaire
- A review and update of the question set will take place prior to the next issue – bearing in mind the need to maintain trend data
- Next questionnaire is due in 2022 but need member support for this to progress

# Safety Alerts / Sharings

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- PSWG has asked the Board about this issue and their views on how to try and move the subject forward
- Sharing learnings is an agenda item on many of the WG agendas and using the simple UKOPA format, photo or one page summary – this would generate at least 10 – 15 Safety Alerts per year
- However, although it is evident that incidents / learnings are occurring and members are willing to discuss these, converting into formal safety alerts is problematic
- Discussion initiated on more efficient means of ‘capture’ e.g. ‘live’ during WG meetings, use of social media, etc.
- Please share in the chat your ideas on how this could be done / improved

# PSWG Proposed Key Outputs for 2021/22

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- Review / rethink of Safety Alert process – initial discussions had
- Continue to progress Process Safety Work area – next area for focus is Behavioural Safety, but virtual working will make this difficult as it lends itself to round table discussions
- Revise 2022 PSAT questions ready for issue

# Process Safety Forum

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- **Process Safety** is defined as a blend of engineering and management skills focused on preventing catastrophic accidents and near misses, particularly structural collapse, explosions, fires and toxic releases associated with loss of containment of energy or dangerous substances such as chemicals and petroleum products
- Managing **Process Safety** is essential and very often the issues that arise in one sector have direct relevance in other sectors. Useful general lessons can be learnt and principles adopted to promote a culture where good safety management is viewed as having a direct impact on the profitability and viability of any organisation be they large or small
- PSWG continue to represent UKOPA on the PSF with a rotating list of member attendees

# Questions?

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- Questions from the chat



# UKOPA

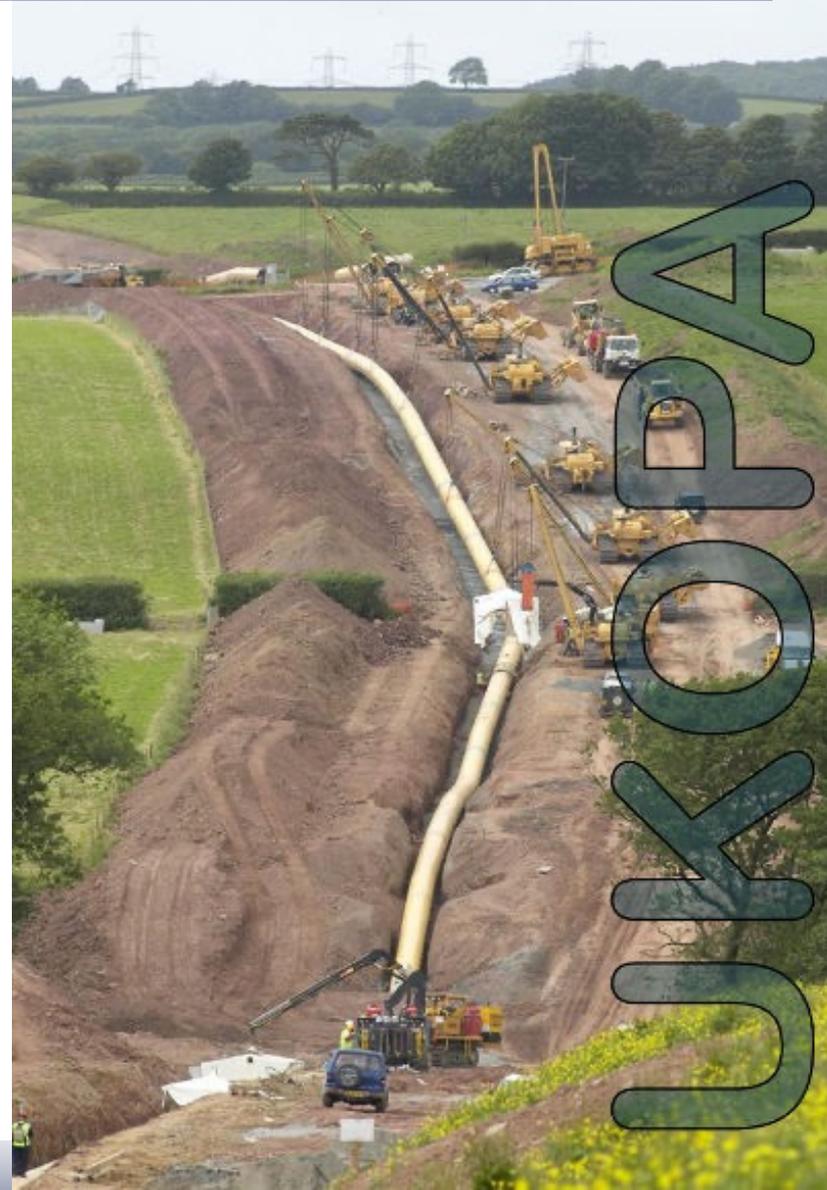
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## Governance Group

Barry Dalus  
GG Chair

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# GPG / TBN Approved since Feb 2021 Meeting

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- UKOPA/GP/039 - Use of UAV (Drones)
  - Rolled out 23<sup>rd</sup> September (Webinar)
  - The GPG & presentation is now uploaded to the UKOPA members centre

# Good Practice Guides under development



Number	Title	2021
UKOPA/GP/033	Abandonment of pipelines (PIWG)	
UKOPA/GP/034	Temporary Life of Repairs (PIWG)	
UKOPA/GP/036	Managing developments and works in proximity to HP pipelines (EPWG)	
UKOPA/GP/037	Pipeline Environmental Risk Assessment (FARWG)	
UKOPA/GP/038	Decommission & Abandonment of Pipelines (PIWG)	

# Technical Bulletins under development



Number	Title	2021
UKOPA/TB/013	Consideration during wildfires (PIWG)	
UKOPA/TB/014	Application of SN curve to fatigue assessment of pipeline dents	
UKOPA/TB/015	Understanding role of PERO (EPWG)	
UKOPA/TB/016	AC Corrosion signpost doc for GPG 027 (PIWG)	
UKOPA/TB/017	DC Corrosion signpost doc for GPG 031 (PIWG)	

# 2021 GPG Update / Review

- **Good Practice Guide scheduled review**
  - *Reviews now due = 7*
  - *Reviews for 2022 = 4*



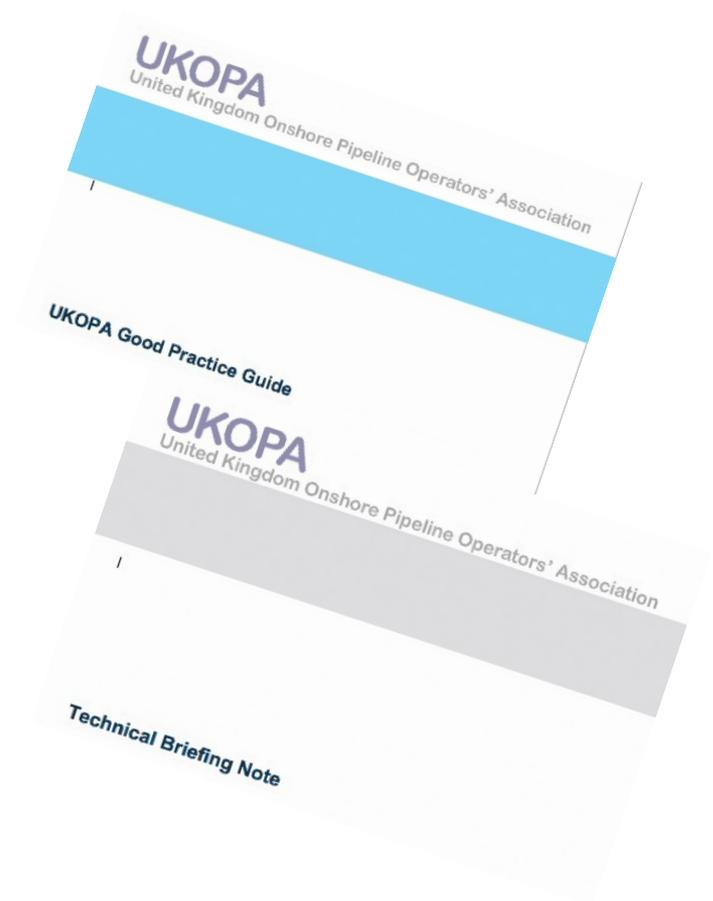
# GPG requiring review



<b>UKOPA/GPG/1</b>	Managing Pipelines with Reduced Depth of Cover
<b>UKOPA/GPG/3</b>	Pipeline Process Safety Performance Monitoring
<b>UKOPA/GPG/4</b>	Managing Pipeline Dents
<b>UKOPA/GPG/5</b>	Managing Pipeline Sleeves
<b>UKOPA/GPG/6</b>	Impact Protection Slabs
<b>UKOPA/GPG/7</b>	Management of Pipeline Illegal Tapping
<b>UKOPA/GPG/9</b>	Near Neutral pH and High pH Stress Corrosion Cracking

# Summary

- **GPG**
  - *Completed = 28*
  - *Currently in progress = 5*
  - *Review required = 7*
- **TBN**
  - *Completed = 10*
  - *Currently in progress = 5*



# What next !

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- Complete GPG & TBN under development
- Identify documents for future developed & agree completion plan
- ***Documents for review to be progressed?***
  - *What assistance does the Working Groups require to complete the GPG reviews?*

# Questions?

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- Questions from the chat



# UKOPA

United Kingdom Onshore Pipeline Operators' Association

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## Member Sharing



# Dates for the diary and close

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- Future events

- 15/16<sup>th</sup> Feb 2022 Board and Members Meeting
- 17/18<sup>th</sup> May 2022 Board and Technical Seminar
- 11/12<sup>th</sup> Oct 2022 Board and Members Meeting

- Thanks from Grant Rogers