

# UKOPA

United Kingdom Onshore Pipeline Operators' Association

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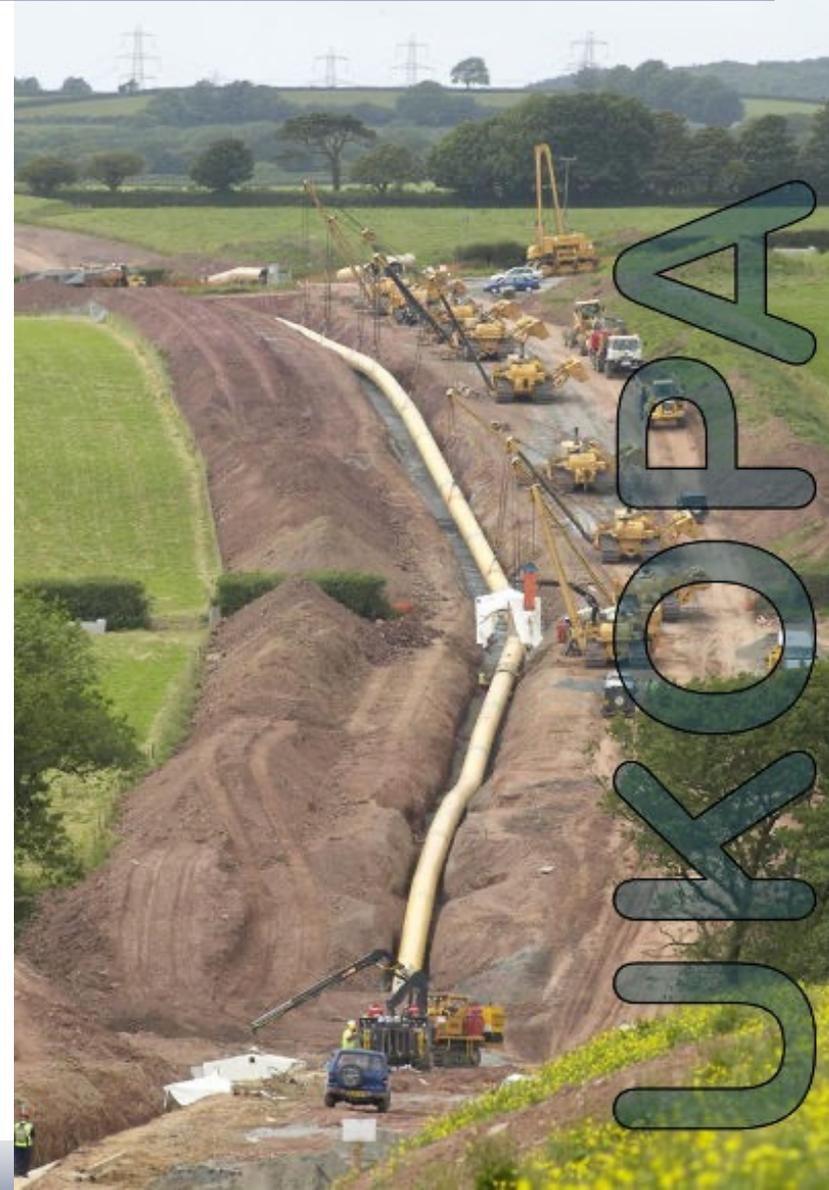
## UKOPA Members Meeting Update

Grant Rogers  
UKOPA Chair

VIA TEAMS

Tuesday 23<sup>rd</sup> February 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
  - CATS Hazard Film
  - 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


Secretariat

**Board of Directors**









**Members**




















EP Langage Ltd



**International Associates**



INEOS



**Technical Consultants**



# Board Update

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- October and December Board Meetings via MS Teams
- UKOPA 2020 Newsletter and Christmas message issued in December
- Board / HSE Liaison Meeting Via MS Teams (January 2021)
- January / February Working Group meetings via MS Teams
- 1 UKOPA Webinars
  - Drones (4<sup>th</sup> Feb)
- Additional Webinars to be scheduled

# Board Update

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- **NUAR Update**
  - Volunteers needed to join a review group
- **Member update**
  - Centrica-SL leaving (tbc)
- **UKOPA Finances**
- **Future events**
  - May-June WG meeting to be virtual via MS TEAMS
  - May 2021 Technical Seminar – replaced by Webinars
  - October 2021 Board / Members meeting (in person if possible)
  - Quarterly communications to be sent out

# Board Update

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- **Members Centre relaunch in November 2020**
  - Details to be sent to members separately
- **UKOPA Newsletter**
  - Publication ???
- **UKOPA Strategy**
  - Complete review at December Board meeting
  - Working Group alignment of workplans Jan/Feb 2021
  - Presentation to February 2021 Members Meeting
- **UKOPA Board**
  - Grant Rogers to continue as Chair from Feb 2021-22
  - Vice Chair being considered by Board

# UKOPA

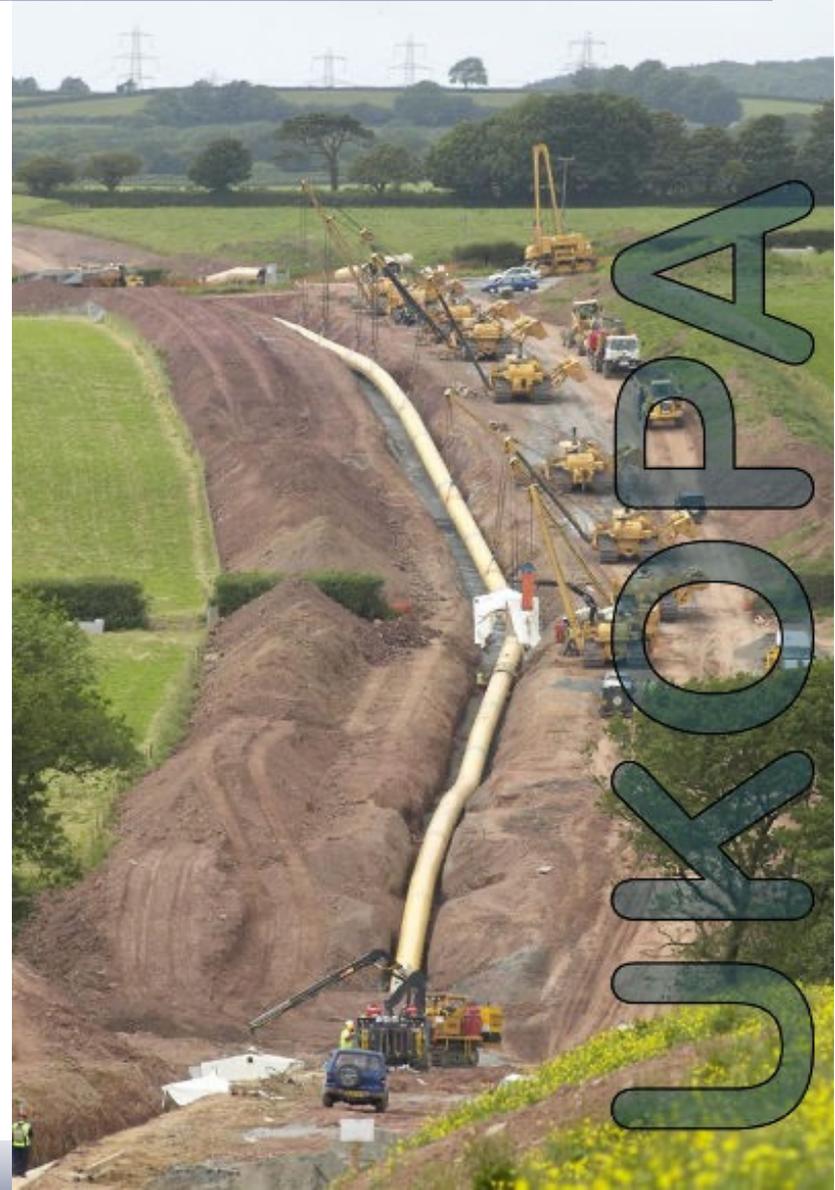
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## PIWG

Tim Rudd  
PIWG Chair

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



# PIWG Update – Focus Areas

- **GPG 27/31 - AC Corrosion & DC Corrosion**
  - GPG/31 (DC Interference) published.
  - ‘Signposting documents’ for AC corrosion & DC Interference completed and with governance group to review
  - PIWG discussed creation of a CP working group and fully endorse proposal
- **Drones Subgroup**
  - Joint project with FARWG (funded from FARWG budget)
  - Assisted in arranging drone webinar
  - Currently working on ‘User Guide’ for operators when requesting drone surveys. Anticipate first draft by end of March for review.
- **GPG 34 Life of Temporary repairs**
  - Codes recommend inspecting ‘temporary’ repairs periodically – aim of this subgroup will be to develop guidance on what to look for and the degradation methods to be aware of.
  - Following teleconference held with subgroup on 9<sup>th</sup> October we have requested members gather samples of legacy temporary repairs for analysis.
  - Particular interest around legacy ‘TEAM/Furmanite’ type clamps – potential to model performance of resin over time and in contact with product.
  - Subgroup working on initial draft of document, plan to have ready for discussion at next PIWG meeting
- **TBN/13 Wild Fires**
  - Information provided from members added to TBN folder (TBN/13) as point of reference for operators. Currently insufficient detailed information to warrant a written document.

# PIWG Update – Focus Areas

- **Environmental GPG**
  - Working jointly with FARWG subgroup to look at providing UKOPA guidance for Environmental Risk Assessment
  - Intent is to provide framework/signposting document that avoids being too prescriptive
- **MOP Affirmation**
  - The project focused on affirmation of MOP / MAOP required for the revisions to TD/1 and PD 8010-1.
  - PIWG have approved the report and shared it with the IGEM/TD/1 review panel.
  - Latest draft of (6<sup>th</sup>) edition of IGEM/TD/1 contains revisions arising from this
  - Key changes around need to re-validate MAOP of lines operating below this
- **GPG/33 Pipeline decommissioning and abandonment**
  - Questionnaire produced and circulated to PIWG members looking for any guidance documents/standards used when decommissioning old assets.
  - Responses still being collated – if you haven't submitted please do so!
  - NOTE: 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.
- **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 Q1 2021.
  - Project utilises a Macro to identify pipeline sleeves in ILI runs (GE/PII and ROSEN) and compare features beneath sleeves with those outside
- **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. By mid-2021 PIWG plan to complete the analysis, develop probability of failure models for piggable and non-piggable pipelines and report the findings.

# Ongoing Research Programs

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- **Weld Quality Project**
  - Further samples from current cut-outs being sent to Ambergate in preparation of future potential research
  - Considering further research in 2021 (Potentially more fatigue analysis)
  - Potential switch of focus to studying vintage Seam Welds for second part of this study
    - Do operators believe this would add value?
- **Temporary Repairs**
  - Potential for future repair program, depending on samples received from Operators
    - If possible provide samples to Ambergate, including temporary repair clamp and filler resin/material so we can evaluate properties
  - Depending on operator response may look at a 2022 student/university project.
- **ESR Strategy**
  - ESR Vendor Qualification documents developed by ROSEN, currently under test by John Ferrari/ESSAR

# GPG's and TBN's – 2021 Work Plan

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- **GPG 001 Management of reduced depth of cover**
  - Expected to just be an editorial updated
- **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
- **GPG 005 Management of pipeline sleeves**
  - Review required as this document may need to be updated to take account of the current work on sleeves on unpiggable pipelines
- **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.
- **Near neutral pH and high pH stress corrosion cracking –**
  - Updated required to remove references to a specific European pipeline operator

# Questions?

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- Questions from the chat



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## PSWG Update

John Ferrari  
PSWG Chair

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# PSWG 2021

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- Meetings held on 9<sup>th</sup> February with 8 of the 14 members in attendance
- Next meeting – 1<sup>st</sup> June 2021
- Most recent meeting covered
  - 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
- GPG035 - A guide to pipeline process safety studies and methodologies (1) has published

# PSAT update

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- PSWG members have carried out a high-level review of the output from the 2020 PSAT questionnaire
- The responses to each area were reviewed and where there is a significant number of 'low' scores, the area has been identified for a more in-depth review
- Following this review, concerns (or opportunities) will be communicated to the relevant Working Group
- Some areas will be for PSWG to address and these will be added to the future potential work list
- 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

# Safety Alerts / Sharings

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- Proposal remains that one or more Safety Alerts are discussed at the being of each WG meeting 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.

# PSWG Proposed Key Outputs for 2021



- 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
- Review 2020 PSAT data – high level review carried out. Specific areas will now be reviewed in detail

# 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



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## Governance Group

Barry Dalus  
GG Chair

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# Published Good Practice Guides

Number	Title	Date Approved
UKOPA/GP/001	Management of Reduced Depth of Cover	Q2 2016
UKOPA/GP/003	Pipeline Process Safety Performance Management	Q4 2014
UKOPA/GP/004	Managing Pipeline Dents	Q1 2016
UKOPA/GP/005	Managing Pipeline Sleeves	Q1 2016
UKOPA/GP/006	Impact Protection Slabs	Q1 2016
UKOPA/GP/007	(Restricted to UKOPA Members & HSE)	Q1 2016
UKOPA/GP/009	Near Neutral pH and High pH Stress Corrosion Cracking	Q1 2016

# Published Good Practice Guides

Number	Title	Date Approved
UKOPA/GP/010	Emergency Plan Guide on Testing	Q2 2017
UKOPA/GP/011	Emergency Plan Template	Q2 2017
UKOPA/GP/012	Emergency Plan Test and Exercising Template	Q2 2017
UKOPA/GP/013	Requirements for Siting and Installation of Wind Turbine Installations in the Vicinity of Buried Pipelines	Q2 2017
UKOPA/GP/014	Requirements for Siting and Installation of Solar Photovoltaic (PV) Installations in the Vicinity of Buried Pipelines	Q2. 2017
UKOPA/GP/015	Managing Pipeline Infringements	Q2 2017
UKOPA/GP/016	Emergency Planning Distances for Major Accident Hazard Pipelines	Q2 2017

# Published Good Practice Guides

Number	Title	Date Approved
UKOPA/GP/017	Line Walking Surveys	Q2. 2018
UKOPA/GP/019	Seismic screening assessment of UK onshore pipelines and associated installations	Q1 2019
UKOPA/GP/020	Managing pipelines subject to ground movement	Q1 2019
UKOPA/GP/025	Application of cost benefit analysis to demonstrate ALARP	Q4. 2018
UKOPA/GP/026	Verification of ILI features identified by in line inspection	Q1 2019
UKOPA/GP/027	AC Corrosion Guidelines	Q4 2019
UKOPA/GP/029	Local Authority Planners information regarding onshore pipelines and associated installations	Q1 2019

# Published Good Practice Guides

Number	Title	For Approval
UKOPA/GP/018	Pipeline Remaining Life Assessment	Q1 2020
UKOPA/GP/021	In Line Inspections	Q1 2020
UKOPA/GP/030	Managing Vibration	Q1 2020
UKOPA/GP/032	Seismic assessments of UK onshore pipelines and associated installations	Q1 2020
UKOPA/GP/031	DC Interference Guidelines	Q4 2020
UKOPA/GP/035	Process Safety Methodologies	Q4 2020

# Technical Bulletins published



Number	Title	Date Approved
UKOPA/TB/01	Ethylene Decomposition	Q1 2019
UKOPA/TB/02	Managing societal risk for gas pipelines	Q1 2019
UKOPA/TB/03	Societal risk for Ethylene Pipelines	Q1 2019
UKOPA/TB/05	Electrical Hazards on pipelines	Q4 2019
UKOPA/TB/06	LUP Zones for Gasoline Pipelines	Q4 2019
UKOPA/TB/07	History of LUP (inc Event Tree and Ethylene Frequency)	Q4 2019
UKOPA/TB/09	Effect of Pipeline Surveillance on Risk of 3 <sup>rd</sup> Party Interference	

## Technical Bulletins published

Number	Title	2020
UKOPA/TB/10	Lower bound for required fatigue assessment of pipeline dents	Q4 2019
UKOPA/TB/011	Guide to Collecting & Reporting Fault Data	Q4 2020
UKOPA/TB/012	A short review of UK Regulatory guidance in the development of and testing of pipeline emergency plans	Q4 2020

# Good Practice Guides & Technical Bulletins under development



Number	Title	2021
UKOPA/GP/033	Abandonment of pipelines	
UKOPA/GP/034	Temporary Life of Repairs	
UKOPA/GP/036	Managing developments and works in proximity to HP pipelines	
UKOPA/GP/037	Pipeline Environmental Risk Assessment	
UKOPA/GP/038	Decommission & Abandonment of Pipelines	
UKOPA/GP/039	Use of UAV (Drones)	

# Good Practice Guides & Technical Bulletins under development



Number	Title	2021
UKOPA/TB/013	Consideration during wildfires	
UKOPA/TB/014	Application of SN curve to fatigue assessment of pipeline dents	
UKOPA/TB/015	Understanding role of PERO	
UKOPA/TB/016	AC Corrosion signpost doc	
UKOPA/TB/017	DC Corrosion signpost doc	

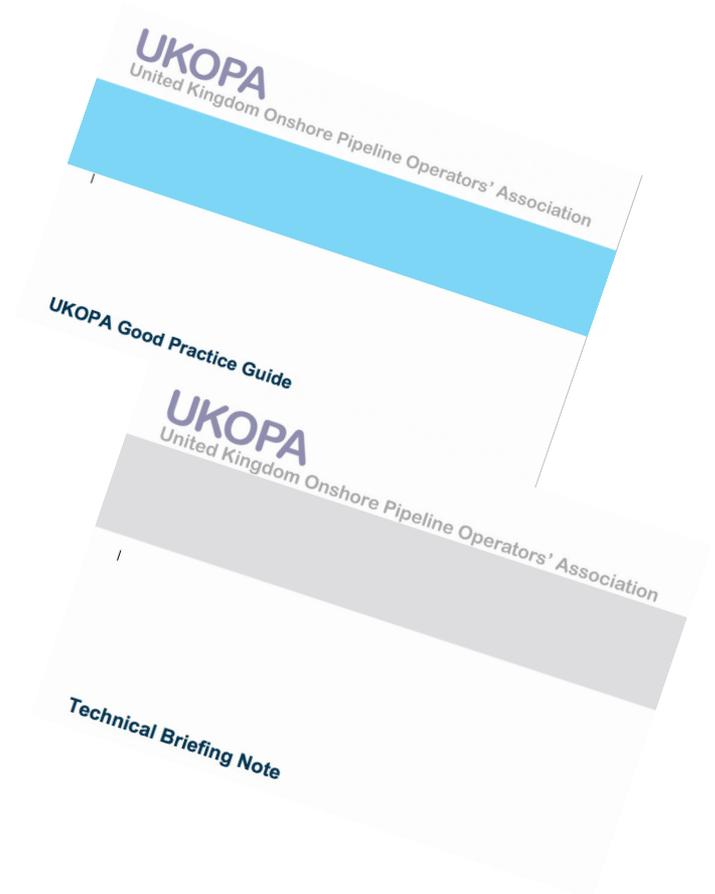
# 2021 GPG Update / Review

- **GPG**
  - *Review now due (2021) = 7*



# Summary

- **GPG**
  - *Completed = 27*
  - *Review due (2021) = 7*
  - *Currently in progress = 6*
- **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
- Complete review of the 7 documents (due 2021)
- ***Large number of documents for review and under development.***

# Governance review



## UKOPA GPG Governance Summary Sheet –

UKOPA/GPG/XXX		Version: Draft for approval	Issue Date	Review Date
<b>Working Group</b>	FARWG	Sub Group		
<b>Document Development History</b>	Development Process	Initial draft - xx Comments from - xx		
	Development Workshops			
	Challenge & Review Workshop			
<b>Independent Review</b>				
<b>UKOPA Review</b>				
<b>HSE engagement/review</b>				
<b>WG Chairman Approval</b>				
<b>Editorial check</b>				
<b>Training Requirements</b>				
<b>Implementation requirements</b>				
<b>Governance Group Approval</b>		Date:		

# Questions?

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- Questions from the chat



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## Member Sharing



## Dates for the diary and close

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- Board / Technical Seminar\* 18<sup>th</sup> May
- Board / Members Meeting 12/13<sup>th</sup> October  
(tbc F2F or virtual)
  - \* Technical seminars to be replaced by a programme of webinars please provide any suggestions for future topics, please email Nikki Barker ([nikki.barker@pieuk.co.uk](mailto:nikki.barker@pieuk.co.uk))
- Thanks from Grant Rogers