UKOPA
United Kingdom Onshore Pipeline Operators' Association

UKOPA Members Meeting – FARWG Update

Martin Davey, Chair FARWG

8th October 2025, Birmingham

www.ukopa.co.uk

FARWG Current Membership

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1. Martin Davey	**SGN (Chair)**	8. Jody Harrison	National Gas Transmission
2. Nikki Barker	PIE (Secretary)	9. Kristina Wood	Northern Gas Networks
3. Richard Price	BPA	10. Neil Morgan	SGN
4. Roy Moobola	Cadent	11. Marcel Villiger	Swissgas
5. Richard Vickrage	Cadent	12. Daniel Milne	Valero
6. Stephen Humphrey	Exolum	13. Darren Cushen	Wales & West Utilities
7. Lar English	Gas Networks Ireland	14. Greg Thompson	Wood Group

15. Michael Acton	*DNV*
16. Karen Warhurst	*DNV*
17. Graham Goodfellow	*PIE*

FARWG Meetings

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- **2025**
  - 14th January – BPA, Kingsbury
  - 29th April – NGT, Warwick
  - 9th September – IGEM, Meetpoint Midlands

2025 Work Programme (1/2)

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- **Flooding / Erosion Risk Matrix / Screening Tool**
  - Develop scope of work and identify competent external organisations, ERM appointed to produce the screening tool
- **H_2/CO_2 Projects**
  - Produce signposting document – what was covered, key findings etc – started production of spreadsheet that is currently being added to
- **IGEM/TD/2 Edition 3 Support**
  - Complete reports of predictive and historic analysis undertaken for Edition 3 – these are to be transposed into reports for the UKOPA archive.
- **H/T Area Interpretation**
  - Guide for members – how to identify H and T areas, what to do once identified etc. DNV engaged to produce should be completed by mid 2026 – query on Ed6 TD1 to be sent to IGEM for clarification

2025 Work Programme (2/2)

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- **GPG/TBN Review**
  - 2024 docs for review (GPG025, TBN 02/03/06/07) required minor edits and will be reissue by end of year
  - TBN09 requires updating following further published paper at HAZARDS 2024 and will be completed by mid 2026
- **2023 / 24 Fault Data Collection & Product Loss Report**
  - Attempt to improve speed of data supply by members
  - ‘Database’ improvements
- **Shallow depth of cover**
  - Documents provided by National Gas and BPA will be used as the basis for producing a UKOPA version of the tool and a workshop will be held in the April 2026 to identify areas to be included

Flooding risk matrix and prioritisation tool

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- **ERM engaged to carry out the work**
- **Scope covers pipelines and the impact of**
  - Rivers
  - Water Course
  - Surface water (pluvial and heavy water run offs
  - Sea water
- **Will consider**
  - Operational Impact *
  - Supply / Business Continuity *
  - Asset Integrity
  - Societal Impact *
- **Prioritisation of Sites**

* Support from members will be required for the consequences

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2023 Product Loss Report

Graham Goodfellow, Principal Consultant, PIE

2023 Product Loss Report

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Summary

- **Data received from 7 members**
  - Cadent, GNI, Ineos, NGN, NGT, SGN (Scotland & South), WWU

- **2023 data**
  - 64 Faults discovered in 2023
  - Number of individual defects tbc
  - 1 Product Loss Incident
    - External corrosion pinhole
    - Surprisingly not in Wales!

- **Analysis 95% complete**
  - Additional defect data received from SGN Scotland on Monday afternoon!

- **Draft report to be issued by end October**

Product Loss Incident Data

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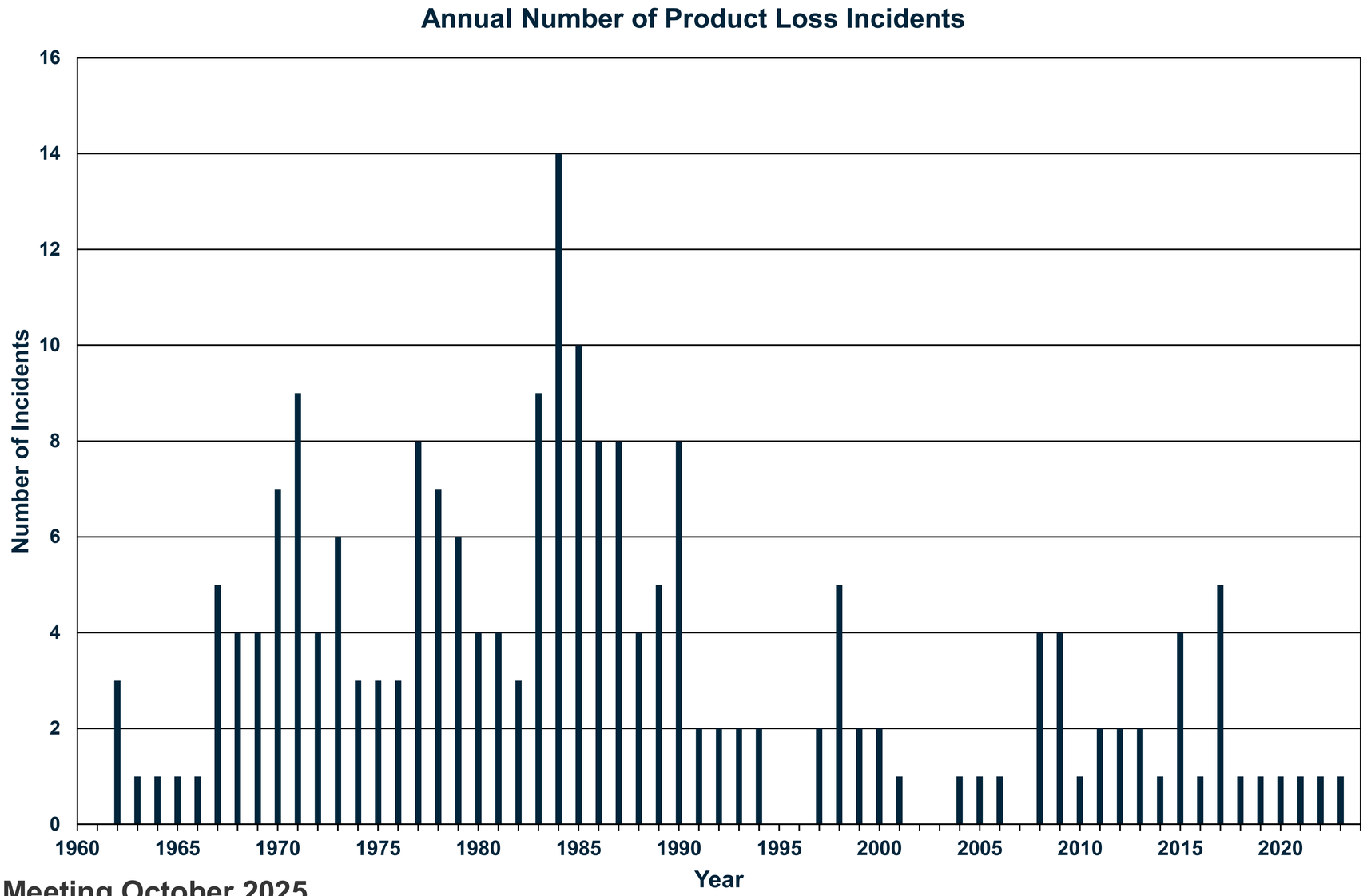
208 Incidents (1962 – 2023)



Product Loss Incident Data

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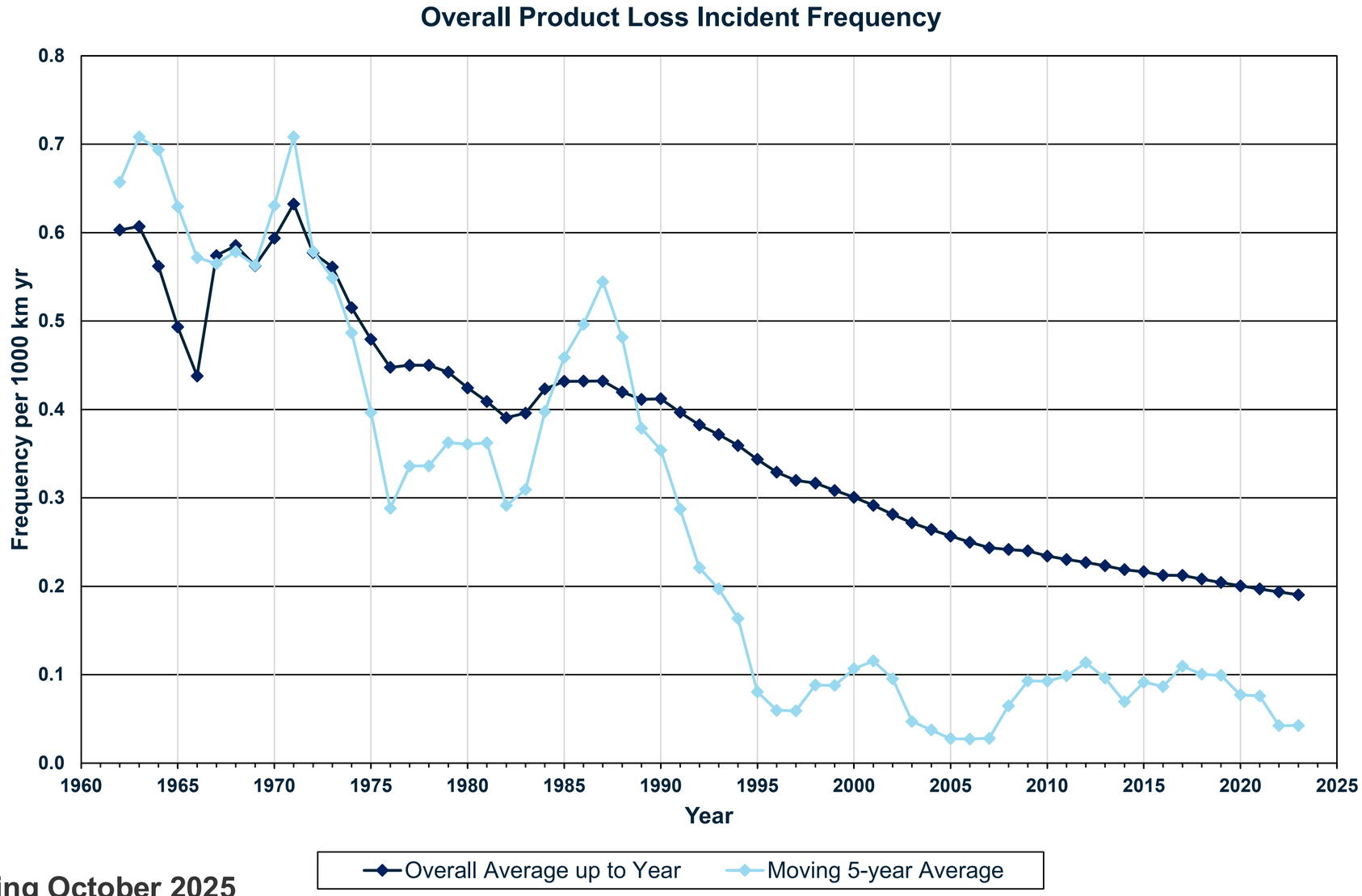
Overall Product Loss Incident Frequency



Product Loss Incident Data

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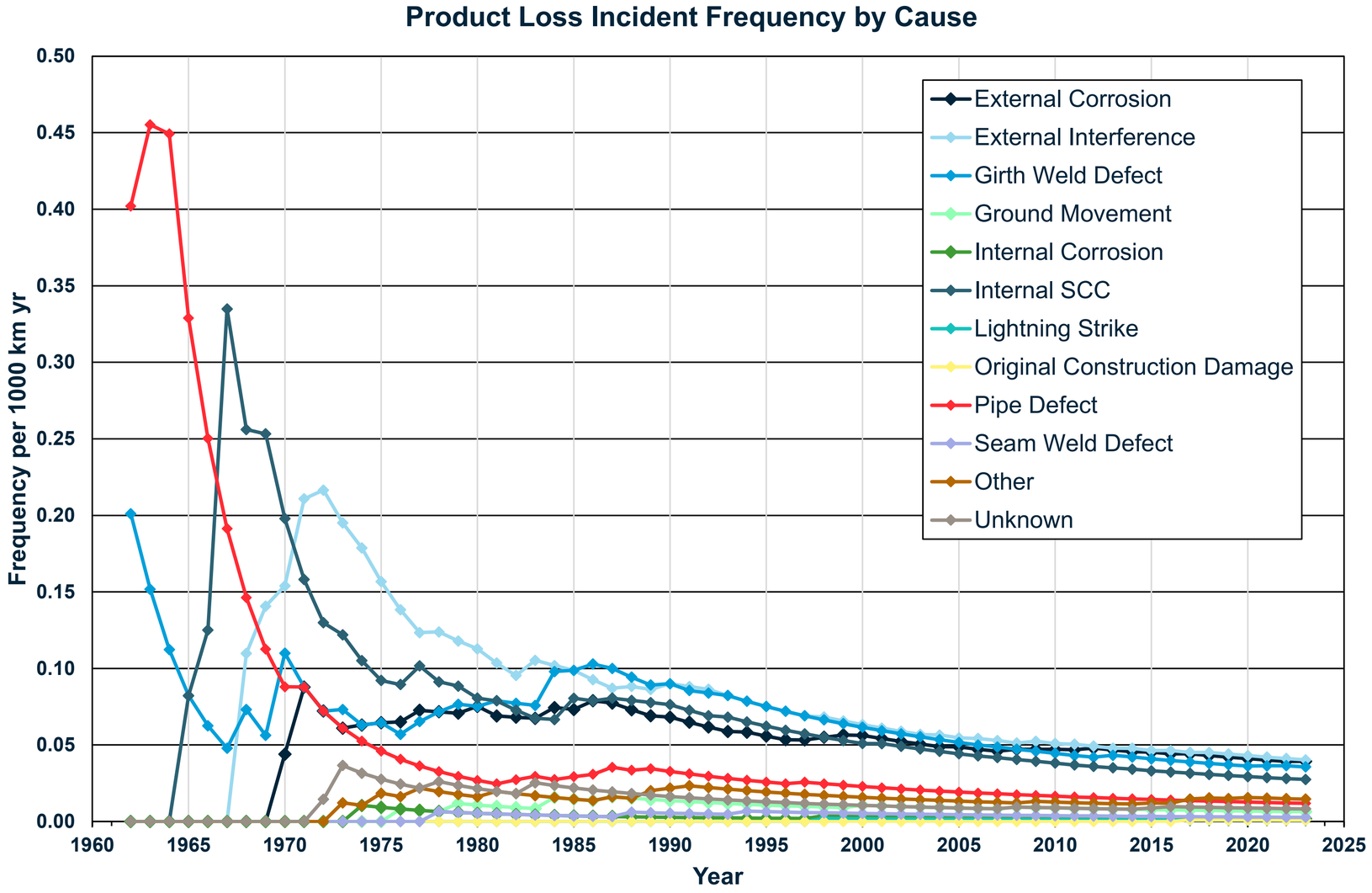
By Cause – since 1962



Product Loss Incident Data

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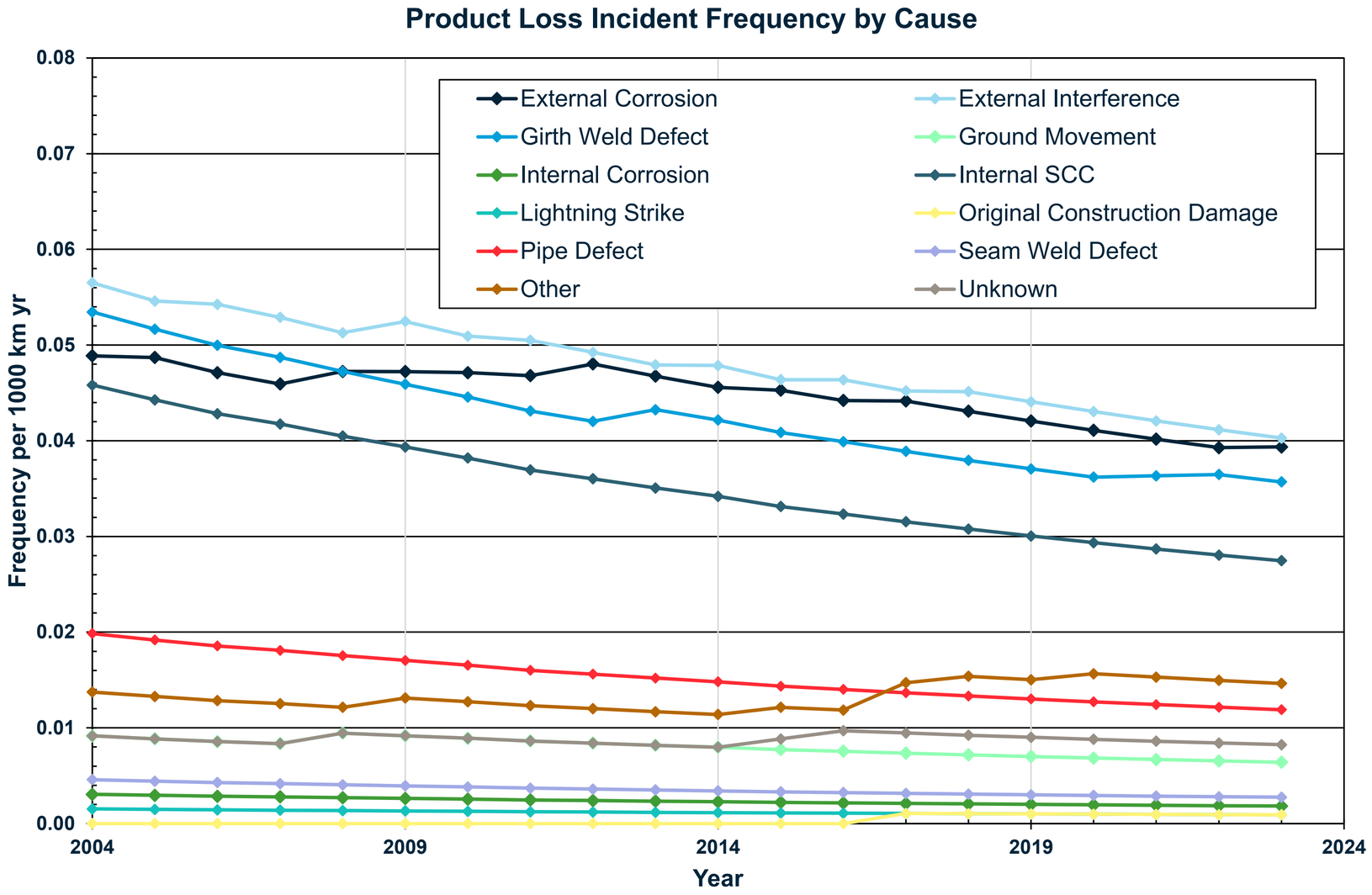
By Cause – 2004 to 2023



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2024 Product Loss & Fault Data

Graham Goodfellow, Principal Consultant, PIE

2024 Data Collection

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So far…

Company	Contact (?)	Data		
		Pipeline	Product Loss	Fault
Cadent	Karen Green	✓	0	18
Essar	Paul Potts	✗	0	0
GNI	Lar English / Diarmuid McAuliffe	✓	0	0
INEOS	Jim Jarvie	✗	0	0
Ineos FPS	Akin Oshinowo	✓	0	0
National Gas	Ikenna Asogwa	✗	✗	✗
NGN	Iain Welldon / Kristina Wood	✓	0	29
Sabic	Geoff Glover	✓	0	4
SGN Scot	Steven Donald	✓	0	13
SGN South	Zakir Ali	✗	✗	✗
Shell	Dave Brown / Neil Manson / Forbes Masterton	✗	0	0
Uniper	Adrian Peck	✗	✗	✗
Wood	Greg Thompson	✗	0	0
WWU	Matt Davies / Scott Winton	✓	4	14
		TOTAL	***4***	***76***

2024 Fault & Product Loss Data

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Cause	Faults	Product Loss
External Corrosion	*41*	*1*
Internal Corrosion	*0*	
External Interference	*6*	*1*
Original Construction Damage	*7*	
Material defect (pipe, mill damage, seam weld)	*3*	
Girth weld defect	*6*	
Ground movement	*0*	
Other/unknown	***13***	***2***
TOTAL	***76***	***4***

General Data Collection Issues

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Summary

- **Late provision of data**
- **Less data than expected given other info on number of digs**
- **Not all defects reported on defect sheet**
  - “See report for details” but no report provided
- **Not using fault categories correctly**
  - If not one of standard categories, select other and add details in fault comments free text field
  - DO NOT OVERWRITE WITH YOUR OWN LABEL!!
- **Use of multiple fault categories**
  - Pick most important and add details in comment field
- **Pipeline data not updated**

2023 & 2024 Data Collection Issues

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Details

- **Cadent**
  - Details for composite repairs required
  - Repeating faults which were sent in previous years
  - Confusion between extent of damage and comment (No Loss – Superficial Damage, “very small amount of gas from leak”)
  - General lack of information in fault description (just “Dent”, “Corrosion” etc.)
- **Ineos**
  - Diameter entered in inches rather than mm
  - Only commissioning year provided instead of date (some cases)
- **NGN**
  - Details for composite repairs required
  - Only commissioning year provided instead of date (some cases)
  - Lack of fault descriptions
- **SGN Scotland**
  - Only commissioning year provided instead of date (some cases)
  - Full list of defects and associated data not provided with a note saying “various see report”
- **WWU**
  - Lack of information for product loss incidents
  - Only commissioning year provided instead of date (some cases)
  - Only fault discovery year provided instead of date (some cases)

Record Keeping – Regulatory Reminder

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PSR96 – Regulation 23 – MAPD

> *(1) The operator shall, before the design of a major accident hazard pipeline is completed prepare, and thereafter revise or replace as often as may be appropriate, a document relating to the pipeline containing, subject to paragraph (2) sufficient particulars to demonstrate that -*
>
> *(a) all hazards relating to the pipeline with the potential to cause a major accident have been identified;*
> *(b) the risks arising from those hazards have been evaluated;*
> *(c) the safety management system is adequate; and*
> *(d) he has established adequate arrangements for audit and for the making of reports thereof.*

- **Guidance Document Paragraph 118**
  - "It will be necessary that suitable and sufficient records of a pipeline are kept, including the design, construction, operation, and maintenance, so as to be able to demonstrate that the pipeline is safe."

- **If you think your company's records are up to scratch, you are wrong…**

Importance of UKOPA Fault Database

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Reminder

- **Without robust fault database**
  - Land Use Planning zones would increase as EGIG frequencies are higher
    - More loss of development compensation
  - Pipeline QRA models not accepted by HSE
    - No ability to smooth over LUP issues
    - All proximity, population density & xing infringements would need relaying or slabbing

- **Consequences**
  - More relays and slabbing
    - Increased OPEX costs
  - Increased risk to staff
    - Hot-tap and stopple
  - Increased leak rate
    - Lots more stopple flanges
  - Reduced ability to convince HSE that current risk mitigation is working
  - Reduced ability to meet UKOPA strategic aims

Changes & Suggestions for 2024 onwards

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- **Hard cutoff for provision of data**
  - Report into modified to be clear who provided data this year
  - Late data will be incorporated into the next years report

- **Check data as it comes in – rather than wait until it is all available**
  - More time for members to correct any ‘poor quality’ information

- **Discuss whether detailed pipeline data for GDNs can be provided from DNV Synergi records**
  - No need for the same data to be supplied by 2 different member departments to 2 different databases
  - Synergi data more granular than some members provide
    - Possibility of more advanced analysis…

Any Questions?

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