

UKOPA

United Kingdom Onshore Pipeline Operators' Association

UKOPA Members Meeting – FARWG Update

Graham Goodfellow, Principal Consultant, PIE

Wednesday 26th February 2025, Manchester

www.ukopa.co.uk

FARWG Current Membership

- | | | | |
|------------------------|----------------------|------------------------------|---------------------------|
| 1. Martin Davey | SGN (Chair) | 9. Jody Harrison | National Gas Transmission |
| 2. Nikki Barker | PIE (Secretary) | 10. Kristina Wood | Northern Gas Networks |
| 3. Richard Price | BPA | 11. Neil Morgan | SGN |
| 4. Roy Moobola | Cadent | 12. Jennifer Stant | SGN |
| 5. Richard Vickrage | Cadent | 13. Fridolin Jenny | Swissgas |
| 6. Stephen Humphrey | Exolum | 14. Daniel Milne | Valero |
| 7. Lar English | Gas Networks Ireland | 15. Darren Cushen | Wales & West Utilities |
| 8. Sean Patterson | Ineos FPS | 16. Greg Thompson | Wood Group |
| | | <i>17. Michael Acton</i> | <i>DNV</i> |
| | | <i>18. Karen Warhurst</i> | <i>DNV</i> |
| | | <i>19. Graham Goodfellow</i> | <i>PIE</i> |

- **2024**

- ~~○ 9th January – DNV, Loughborough~~

- ~~○ 2nd May – DNV, Loughborough~~

- ~~○ 10th September – Meetpoint Midlands, IGEM, Kegworth~~

- **2025**

- ~~○ 14th January – DNV, Loughborough~~

- 29th April – Warwick (TBC)

- September – Date & Venue TBC

- **IGEM/TD/2 Update Support**
 - Edition 3 issued October 2024
- **River Xing Management & Remediation**
 - Subgroup meeting to discuss approach held 06/12/24
 - Attendees from NGT, all GDNs and BPA
 - Flooding / Erosion risk matrix to be developed in 2025
- **Development of TBN/GPGs**
 - 1 GPG and 5 TBNS reviewed
 - Minor edits needed only – to be completed in early 2025
- **H₂/CO₂ Projects**
 - Watching brief on key developments that impact on risk
- **Please note that member (and consultant) availability was limited in 2024 and less progress made on several tasks than planned**

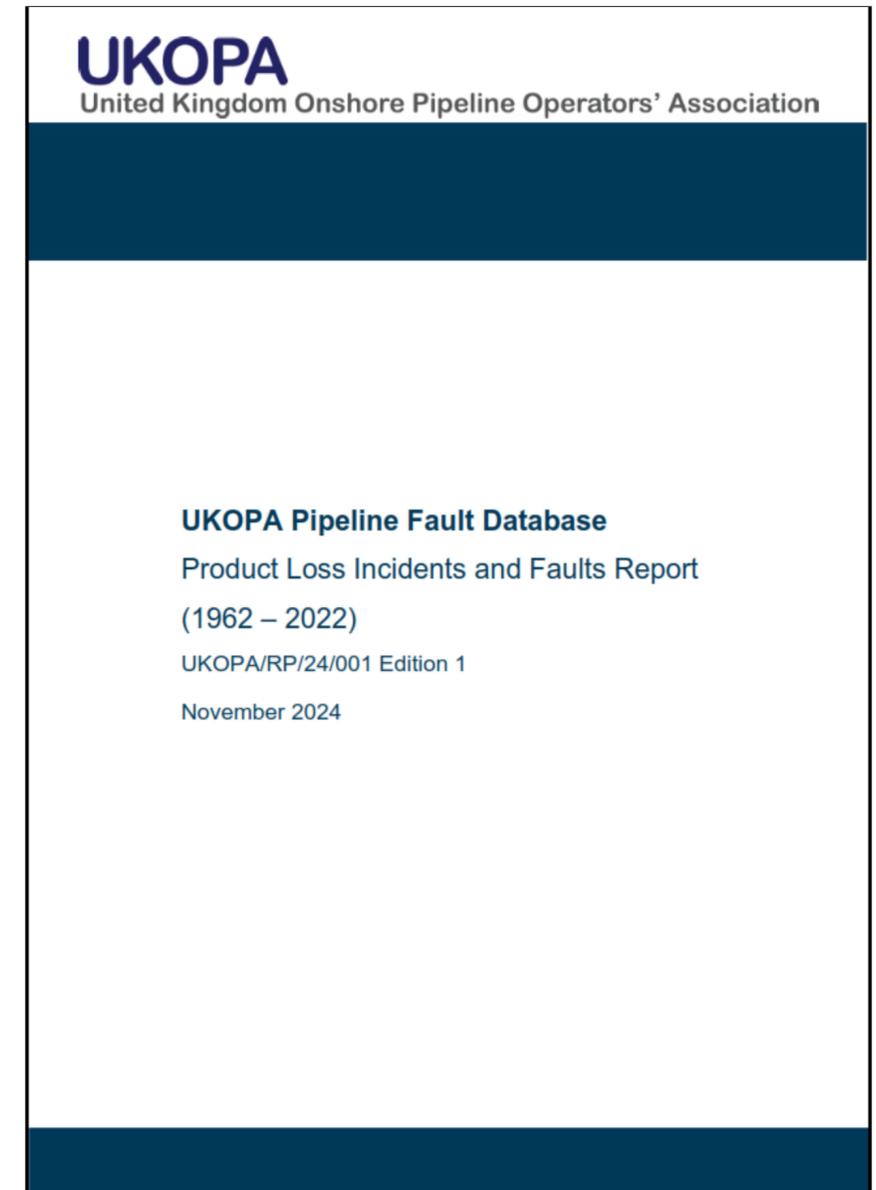
- **Flooding / Erosion Risk Matrix / Screening Tool**
 - Develop scope of work and identify competent external organisations
- **H₂/CO₂ Projects**
 - Produce signposting document – what was covered, key findings etc.
- **IGEM/TD/2 Edition 3 Support**
 - Complete reports of predictive and historic analysis undertaken for Edition 3
- **H/T Area Interpretation**
 - Guide for members – how to identify H and T areas, what to do once identified etc.
- **GPG/TBN Review**
 - Complete minor edits and reissue
- **2023 Fault Data Collection & Product Loss Report**
 - Attempt to improve speed of data supply by members
 - ‘Database’ improvements
- **Battery Storage GPG**
 - Support to CPWG

2022 Product Loss Report

2022 Product Loss Report

Timetable for Issue

- **Draft circulated to FARWG on 23/09/2024**
 - Comments received from
 - Fridolin Jenny (Swissgas)
 - Mike Acton (DNV)
 - Chris Lyons (PIE)
 - Calculations QA'd by Chris Lyons
- **Calculations updated & final report issued to UKOPA on 25/11/2024**
- **Available on UKOPA website from December 2024**
 - Published Documents / UKOPA Reports
 - <https://www.ukopa.co.uk/wp-content/uploads/2024/12/UKOPA-RP-24-01-Product-Loss-Report-1962-2022-Ed1.pdf>



Contributions from Members

- **9 members have provided fault data**
 - Cadent, GNI, INEOS, NGN, NGT, Sabic, SGN Scot & SGN South, Shell (part), WWU
- **2 members confirmed they have no data for 2022**
 - E.On, Essar
- **3½ companies who have provided data in past have not responded**
 - INEOS FPS, Shell (part), Uniper, Wood
- **3 members who operate MAHPs currently not contributing**
 - Drax, ENI, Mutual Energy
- **Amount of data appears to be reducing and pipeline data not being updated regularly...**
 - Change in staff / workload issues?
 - Less digs / not every dig reported to UKOPA?
 - FR/1 / P11 policies not being followed?
 - All of the above?

2022 Summary

Data Collection Issues

- **Late provision of data**
 - Especially pipeline data
- **Not all defects (or any) reported on defect sheet**
- **'New' dent/gouge classification not being followed**
- **Not many faults reported**
 - One operator said that are doing 50-60 digs per year
 - But only 2 faults reported for 2022!
 - Report length of pipeline ILI'd and/or CIPS/DCVG each year?
 - Way to cross-check number of faults
- **Lots of faults reported in 2022 were discovered in earlier years**
 - Discovery is ILI date
 - Long delay to excavation?
 - Takes this long for data to work through company?

2022 Fault & Product Loss Data

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Cause	Faults	Product Loss
External Corrosion	2	
Internal Corrosion	0	
External Interference	3	
Original Construction Damage	2	
Material defect (pipe, mill damage, seam weld)	0	
Girth weld defect	2	1
Ground movement	0	
TOTAL	9	1

- **Leaking Girth Weld**
 - Rebuild at valve pit
 - Pinhole leak at weld wrap at tee
 - Repaired by encapsulation

Record Keeping – Regulatory Warning

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.*

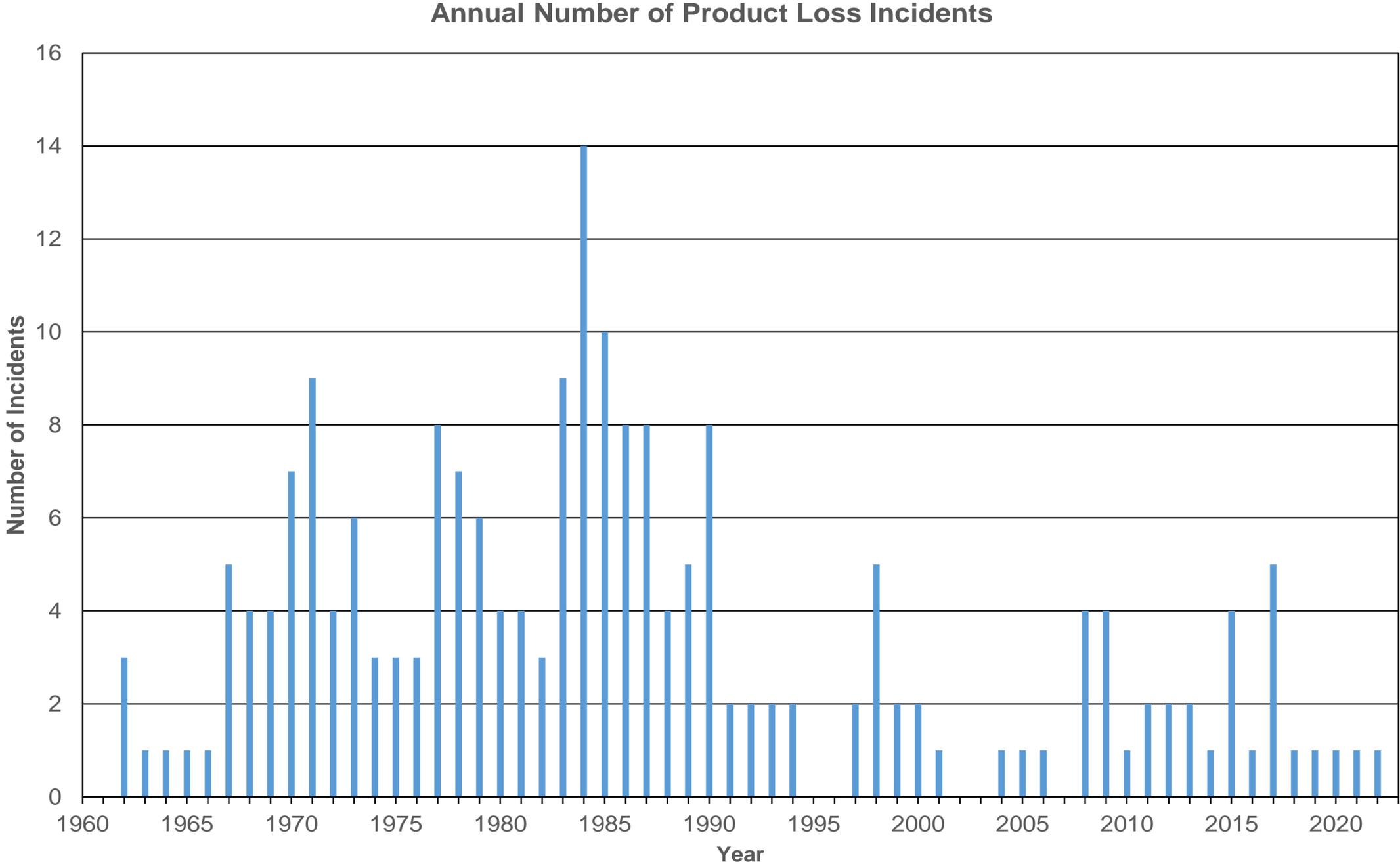
- **Guidance Document Paragraph 118**

- “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 may want to talk to any members who have had a recent HSE investigation...**

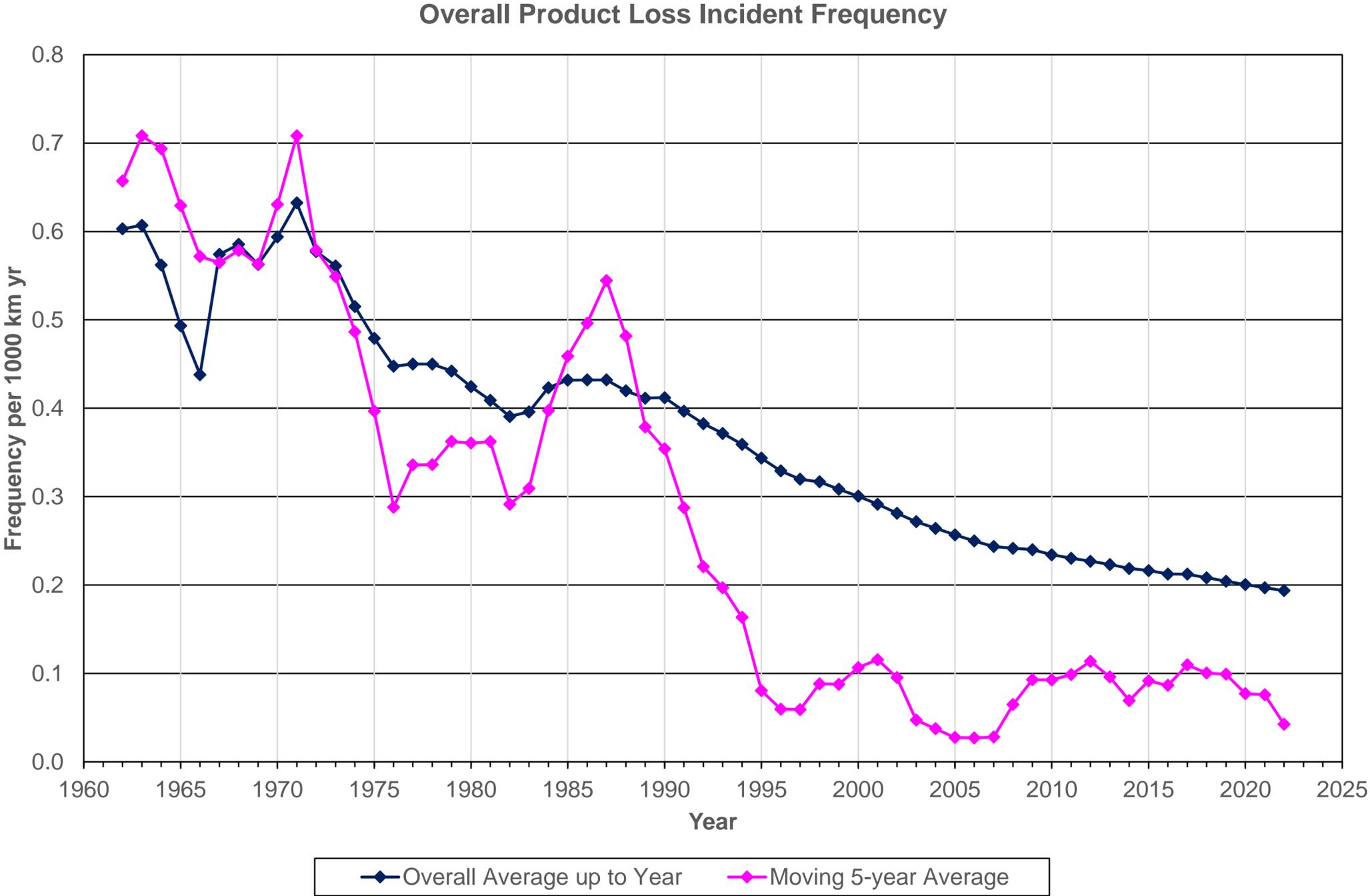
Product Loss Incident Data

207 Incidents (1962 – 2022)



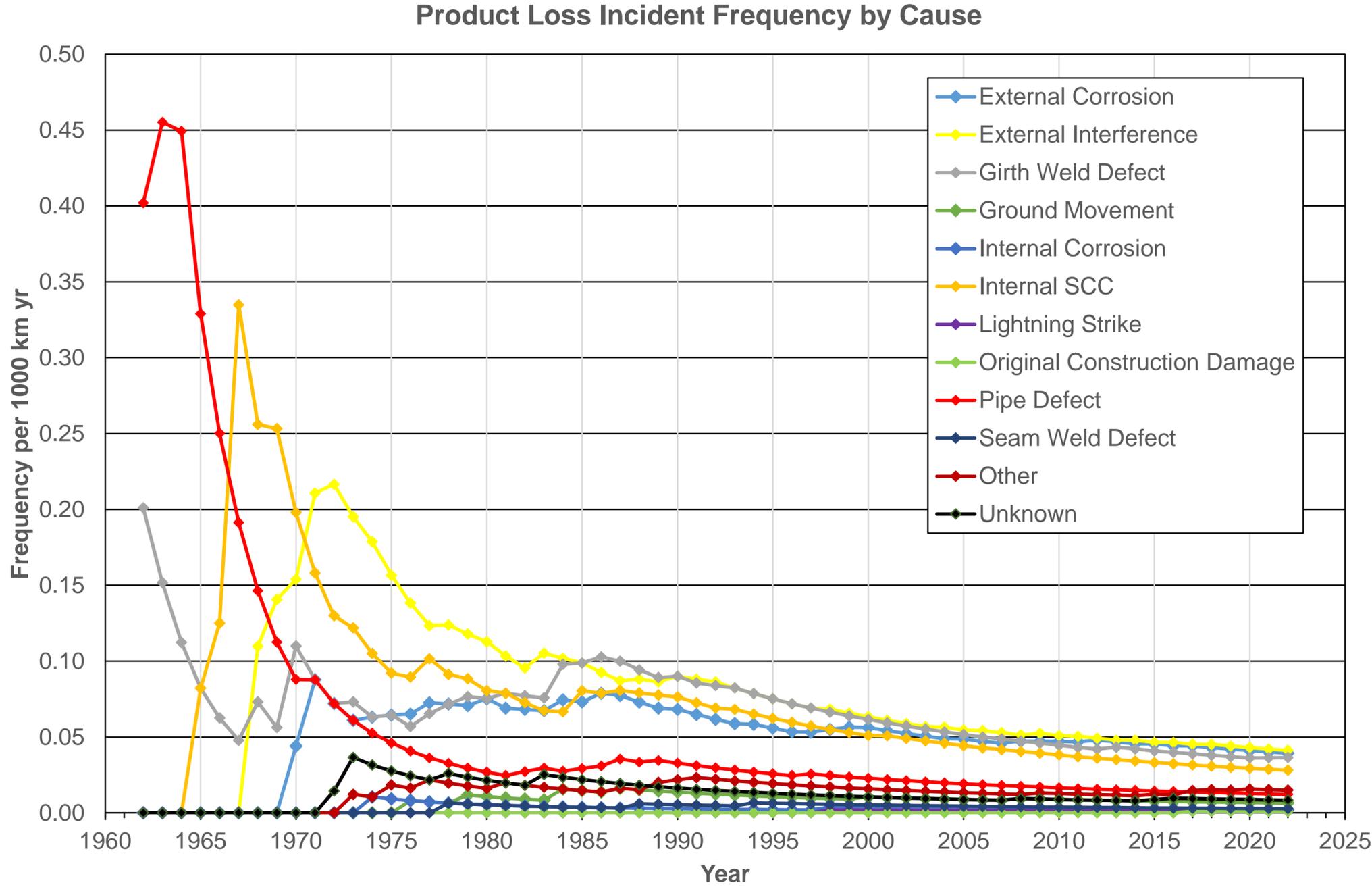
Product Loss Incident Data

Overall Product Loss Incident Frequency



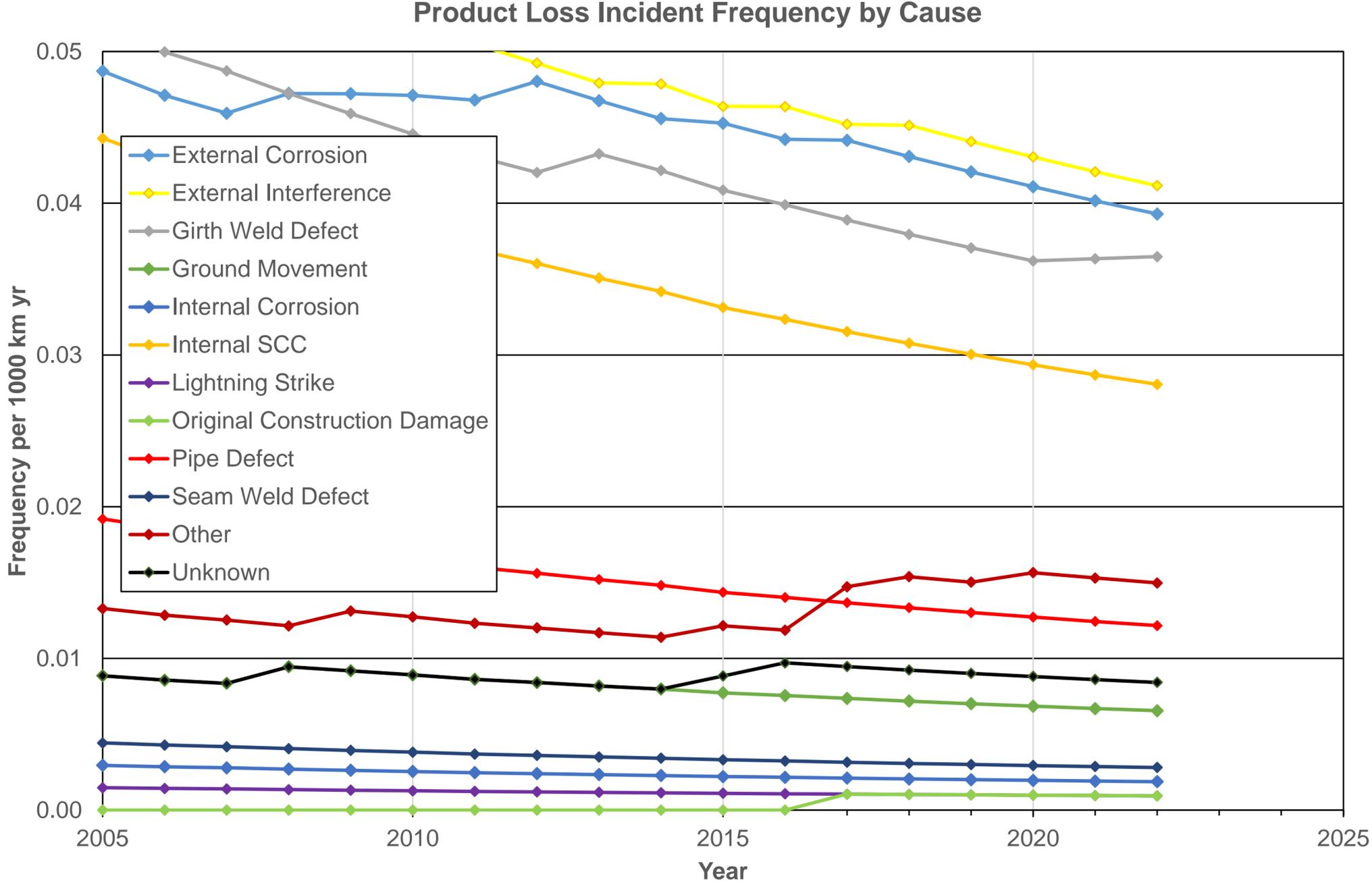
Product Loss Incident Data

By Cause – since 1962



Product Loss Incident Data

By Cause – since 2005



2023 Fault Data Collection

2023 Data Collection

So far...

Company	Contact (?)	Data		
		Pipeline	Product Loss	Fault
Cadent	Karen Green	✓	0	26
EOn	Neil Price	✗	0	0
Essar	Paul Potts	✗	✗	✗
GNI	Brian Leahy / Lar English	✓	0	4
INEOS	Jim Jarvie / Pauline Scott	✓	0	2
Ineos FPS	Akin Oshinowo	✓	0	0
National Gas	Ikenna Asogwa	✗	2	35
NGN	Iain Welldon	✓	1	✗
Sabic	Geoff Glover	✗	✗	✗
SGN Scot	Mark Fisher	✓	0	5
SGN South	Zakir Ali	✗	0	✗
Shell	Forbes Masterton / Dave Brown / Andy Mottram	✗	0	0
Uniper	Dan Davies	✗	✗	✗
Wood	Greg Thompson	✗	0	0
WWU	Matt Davies	✓	2	21
		TOTAL	5	93

2023 Fault & Product Loss Data

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Preliminary Results

Cause	Faults	Product Loss
External Corrosion	48	
Internal Corrosion	0	
External Interference	12	
SCC	1	
Original Construction Damage	13	
Material defect (pipe, mill damage, seam weld)	0	
Girth weld defect	4	
Ground movement	0	
Other/unknown	14	5
TOTAL	93	5

2023 Product Loss Incidents

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- **Leaking Valve**
 - Sealant line connection on 6" valve
 - Spring loaded non return / check valve
 - Used flowstop to repair
- **Leak from Buried Stopple Tee**
 - Stopple flange leaking
 - Repaired by replacing O-ring, studs and nuts
- **Loose bolts on flange**
 - Public reported smell of gas
 - Gas readings in bar holes revealed location
- **Leaking stem on valve**
 - Valve cleaned, greased and reset
- **Plus one unknown (at present!)**

Main issues this year

- **Late provision of data**
 - 5 members who normally contribute (eventually) haven't provided data
 - Essar, NGN, Sabc, SGN South and Uniper are on the naughty step
- **Not all defects reported on defect sheet**
 - Fault record says fault is associated with x defects
 - Defect sheet has details for less than x
- **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**
 - If more than one cause – e.g. external corrosion at location of coating damage from construction
 - Choose most important one and add comments in free text field to explain other causes
 - In this case, I'd probably pick external corrosion as that is what caused the product loss even though it occurred after the construction damage...

Any Questions?

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