

Specifications and requirements for in-line inspection of pipelines (POF specifications)

Main changes in the 2016 version from the 2009 version

Chapter 1: Introduction

- No significant changes, some re-wording and re-placing of text

Chapter 2: Definitions and abbreviations

- “shall” and “should defined
- word “pig” deleted throughout the document, now “ILI tool”
- definitions modified and quite some added (e.g. Complex dent)
- definitions now also based on other documents, references added
- abbreviations added
- ILI contractor now requested to specify minimum dimensions of a detectable pinhole.
- POF diagram (Fig 2.2) was not changed!
- Figures/text with sizing requirements added for:
 - Dent (including reporting requirements)
 - Gouge (no figure, just wording how to report)
 - Ovality (including reporting requirements)
 - Buckle (no figure, just wording)
 - Ripple/Wrinkle
 - Roof topping/peaking
 - Crack and crack-like
 - Crack colonies
- Interaction rules: no “POF” rule given, references to other specifications
- ERF calculation now based on MAOP (was MOP)

Chapter 3: Health and safety

- No significant changes, some re-wording

Chapter 4: Tool specifications

Different set-up:

- Tool specifications now to be provided via appendix:
 - Tool data sheets
 - Tool performance specifications (MFL pinholes changed)
- Tool class history section (tool readiness) added
- POD90/95 introduced and advised
- Basis of (tool) performance requested (e.g. modelling, field verification)
- Access to supporting (tool) performance information (if requested)
- Tool performance verification might be requested
- Changes to tool specifications must to be reported if required

Chapter 5: Personnel qualification

- No significant changes.

Chapter 6: ILI preparation and contracting

New chapter:

- ILI preparation – reference to POF document “Guidance on achieving ILI First Run Success”
- Contracting: minimum items stated.

Chapter 7: Reporting

Various types of reports listed and described:

- 2 types of report mandatory:
 - Operations report
 - Final report
- Optional reports (on request of client):
 - Preliminary report
 - Raw data report
 - Multiple run comparison report
 - Experience report
 - Additional reporting
- Contents of all reports described (but to be agreed)
- Immediate threat reporting requirement for ILI contractor.

Chapter 8: References

- List of references added

Appendix

- Appendix 1 (updated)
 - ILI companies that provided comments to the draft version of these specifications
- Appendix 2 (updated)
 - Guideline to clients for defining specific details of the POF specifications
- Appendix 3 (updated)
 - Report structure, terminology and acronyms
- Appendix 4 (new)
 - Detailed tool data sheet requirements
- Appendix 5 (new)
 - Tool technology performance specifications:
 - MFL separated from other technologies (pinholes POD changed)
 - Other technologies do not use metal loss categories
- Appendix 6 (updated):

Typical example of Pipe tally

- Appendix 7 (updated):
Typical example List of anomalies
- Appendix 8 (updated):
Typical example List of clusters
- Appendix 9 (new):
Typical example Run comparison overview