DIN CEN ISO/TS 12747:2013-12 (E)

Petroleum and natural gas industries - Pipeline transportation systems - Recommended practice for pipeline life extension (ISO/TS 12747:2011); English version CEN ISO/TS 12747:2013

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Terms and definitions 3

4 Abbreviated terms 5

5 Life extension overview 5
5.1 General 5
5.2 Assessment process 6
5.3 Assessment requirements 6
5.4 Limitations on life extension 8
5.5 Pipeline system availability 9

6 Data compilation 9
6.1 General 9
6.2 Data 9

7 Technical integrity of the pipeline system 12
7.1 General 12
7.2 PIMS review 12
7.3 Remediation requirements 13

8 Future threat identification 13
8.1 General 13
8.2 Generic threats 13
8.3 Threats specific to offshore pipeline systems 14
8.4 Threats specific to onshore pipeline systems 14

9 Life extension assessment 14
9.1 Risk assessment 14
9.2 Pipeline system design review 16
9.3 Assessment of remnant life 17
9.4 Integrity management during extended life 20
9.5 Regulatory requirements 20
9.6 Update of systems and procedures 20

10 Life extension report 21

Bibliography 22