

DIN EN 16348:2013-09 (E)

Gas infrastructure - Safety Management System (SMS) for gas transmission infrastructure and Pipeline Integrity Management System (PIMS) for gas transmission pipelines - Functional requirements

Contents

	Page
Foreword	3
1 Scope	4
2 Normative references	5
3 Terms and definitions	5
4 Safety management system (SMS)	6
4.1 General requirements	6
4.2 Management commitment and safety policy	8
4.3 Planning	9
4.3.1 Safety aspects	9
4.3.2 Legal and other requirements	9
4.3.3 Objectives, targets and programme	9
4.4 Implementation and operation of the SMS	9
4.4.1 Structure, responsibility and resources	9
4.4.2 Awareness, training, and competence	10
4.4.3 Communication of the SMS	10
4.4.4 Documentation of the SMS	10
4.4.5 Control of Documents	11
4.4.6 Operational control of the SMS	11
4.4.7 Management of emergency situations	14
4.4.8 Purchasing of equipment or services	14
4.4.9 Innovation	15
4.5 Checking and corrective action of the SMS	15
4.5.1 Monitoring and measurement	15
4.5.2 Evaluation of compliance	16
4.5.3 Nonconformity, corrective action and preventive action	16
4.5.4 Control of records	16
4.5.5 Internal audit	17
4.6 Management review	17
5 Pipeline Integrity Management System (PIMS)	18
5.1 General requirements	18
5.2 Identification of the safety aspects for pipeline integrity	19
5.3 Preparation of PIMS programmes	20
5.4 Application of integrity programmes	21
5.4.1 Gathering data	21
5.4.2 Methodologies to ensure and monitor pipeline integrity	21
5.5 Integrity assessment	24
5.6 Mitigation	25
5.6.1 General	25
5.6.2 Repair and modification	25
5.6.3 Adjusting operational conditions	25
Bibliography	27