

DIN EN 15399:2019-03 (E)

Gas infrastructure - Safety Management System for Gas Networks with maximum operating pressure up to and including 16 bar

Contents	Page
European foreword	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	7
4 Context of the organization	9
4.1 Understanding the organization and its context	9
4.2 Understanding the needs and expectations of interested parties	9
4.3 Safety Management System (SMS)	9
4.3.1 General	9
4.3.2 Determining the scope of the SMS	9
5 Leadership	10
5.1 Leadership and commitment	10
5.2 Policy	10
5.3 Organizational roles, responsibilities and authorities	11
6 Planning of the SMS	11
6.1 Actions to address risks and opportunities	11
6.1.1 Safety risk management	11
6.1.2 Legal and other requirements	12
6.2 SMS objectives and planning to achieve them	12
7 Support of the SMS	13
7.1 Resources	13
7.2 Competence	13
7.3 Awareness	14
7.4 Communication	14
7.5 Documented information of the SMS	15
7.5.1 General	15
7.5.2 Creating and updating	15
7.5.3 Control of documented information	15
8 Operation of the SMS	16
8.1 Operational planning and control of the SMS	16
8.1.1 General	16
8.1.2 Design of the gas distribution infrastructure	16
8.1.3 Construction, commissioning and decommissioning of the gas distribution infrastructure	17
8.1.4 Operation of the gas distribution infrastructure	18
8.1.5 Maintenance of the gas distribution infrastructure	19
8.1.6 Gas infrastructure permanently out of service	20
8.1.7 Emergency plans	20
8.1.8 Outsourcing and purchasing	21
8.1.9 Innovation and improvement	22
8.2 Performance evaluation Monitoring, measurement, analysis and evaluation	22

8.2.1	Performance evaluation framework	22
8.2.2	Evaluation of compliance	23
8.3	Internal Audit	23
8.3.1	Purpose of internal audits	23
8.3.2	Program and implementation of internal audits	23
8.4	Management Review	24
8.5	Documentation	24
9	Improvement of the SMS	24
9.1	Non-conformity and corrective action	24
9.2	Gas network operatorContinual improvement	25
Annex A (informative) Plan-Do-Check-Act (PDCA) methodology		26
Bibliography		27