

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Functional safety – Safety instrumented systems for the process industry sector –

Part 1: Framework, definitions, system, hardware and application programming requirements

Sécurité fonctionnelle – Systèmes instrumentés de sécurité pour le secteur des industries de transformation –

Partie 1: Cadre, définitions, exigences pour le système, le matériel et la programmation d'application



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CONTENTS

FOREWORD.....5

INTRODUCTION.....7

1 Scope.....9

2 Normative references.....12

3 Terms, definitions and abbreviations13

 3.1 Terms13

 3.2 Terms and definitions13

 3.3 Abbreviations31

4 Conformance to the IEC 61511-1:2016.....33

5 Management of functional safety.....33

 5.1 Objective33

 5.2 Requirements.....33

 5.2.1 General33

 5.2.2 Organization and resources.....33

 5.2.3 Risk evaluation and risk management.....34

 5.2.4 Safety planning34

 5.2.5 Implementing and monitoring.....34

 5.2.6 Assessment, auditing and revisions35

 5.2.7 SIS configuration management.....37

6 Safety life-cycle requirements37

 6.1 Objectives.....37

 6.2 Requirements.....38

 6.3 Application program SIS safety life-cycle requirements40

7 Verification43

 7.1 Objective43

 7.2 Requirements.....43

8 Process H&RA.....45

 8.1 Objectives.....45

 8.2 Requirements.....45

9 Allocation of safety functions to protection layers46

 9.1 Objectives.....46

 9.2 Requirements of the allocation process46

 9.3 Requirements on the basic process control system as a protection layer49

 9.4 Requirements for preventing common cause, common mode and dependent failures50

10 SIS safety requirements specification (SRS).....50

 10.1 Objective50

 10.2 General requirements.....50

 10.3 SIS safety requirements50

11 SIS design and engineering53

 11.1 Objective53

 11.2 General requirements.....53

 11.3 Requirements for system behaviour on detection of a fault.....54

 11.4 Hardware fault tolerance55

 11.5 Requirements for selection of devices.....56

11.5.1	Objectives.....	56
11.5.2	General requirements.....	56
11.5.3	Requirements for the selection of devices based on prior use	56
11.5.4	Requirements for selection of FPL programmable devices (e.g., field devices) based on prior use	57
11.5.5	Requirements for selection of LVL programmable devices based on prior use	58
11.5.6	Requirements for selection of FVL programmable devices	59
11.6	Field devices.....	59
11.7	Interfaces.....	59
11.7.1	General	59
11.7.2	Operator interface requirements	59
11.7.3	Maintenance/engineering interface requirements	60
11.7.4	Communication interface requirements	60
11.8	Maintenance or testing design requirements	61
11.9	Quantification of random failure	61
12	SIS application program development	63
12.1	Objective	63
12.2	General requirements.....	63
12.3	Application program design	64
12.4	Application program implementation	65
12.5	Requirements for application program verification (review and testing).....	66
12.6	Requirements for application program methodology and tools	67
13	Factory acceptance test (FAT)	68
13.1	Objective	68
13.2	Recommendations.....	68
14	SIS installation and commissioning	69
14.1	Objectives.....	69
14.2	Requirements.....	69
15	SIS safety validation	70
15.1	Objective	70
15.2	Requirements.....	70
16	SIS operation and maintenance	73
16.1	Objectives.....	73
16.2	Requirements.....	73
16.3	Proof testing and inspection	75
16.3.1	Proof testing	75
16.3.2	Inspection	76
16.3.3	Documentation of proof tests and inspection.....	76
17	SIS modification	76
17.1	Objectives.....	76
17.2	Requirements.....	77
18	SIS decommissioning	77
18.1	Objectives.....	77
18.2	Requirements.....	78
19	Information and documentation requirements	78
19.1	Objectives.....	78
19.2	Requirements.....	78

Bibliography	80
Figure 1 – Overall framework of the IEC 61511 series	8
Figure 2 – Relationship between IEC 61511 and IEC 61508.....	10
Figure 3 – Detailed relationship between IEC 61511 and IEC 61508	11
Figure 4 – Relationship between safety instrumented functions and other functions.....	12
Figure 5 – Programmable electronic system (PES): structure and terminology.....	24
Figure 6 – Example of SIS architectures comprising three SIS subsystems	27
Figure 7 – SIS safety life-cycle phases and FSA stages.....	38
Figure 8 – Application program safety life-cycle and its relationship to the SIS safety life-cycle.....	41
Figure 9 – Typical protection layers and risk reduction means.....	49
Table 1 – Abbreviations used in IEC 61511	32
Table 2 – SIS safety life-cycle overview (1 of 2).....	39
Table 3 – Application program safety life-cycle: overview (1 of 2).....	42
Table 4 – Safety integrity requirements: PFD_{avg}	47
Table 5 – Safety integrity requirements: average frequency of dangerous failures of the SIF	47
Table 6 – Minimum HFT requirements according to SIL	55

INTERNATIONAL ELECTROTECHNICAL COMMISSION

**FUNCTIONAL SAFETY –
SAFETY INSTRUMENTED SYSTEMS
FOR THE PROCESS INDUSTRY SECTOR –****Part 1: Framework, definitions, system,
hardware and application programming requirements**

FOREWORD

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This second edition cancels and replaces the first edition published in 2003. This edition constitutes a technical revision. This edition includes the following significant technical changes with respect to the previous edition:

- references and requirements to software replaced with references and requirements to application programming;
- functional safety assessment requirements provided with more detail to improve management of functional safety.
- management of change requirement added;