DIN EN 9227-1:2026-03 (E)

Aerospace series - Programme management - Part 1: Guide to dependability and safety control; English version EN 9227-1:2025

Contents

Page

European foreword 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 5

4 List of acronyms 9

5 Fundamental notions and principles 11

6 Organisational provisions 12
6.1 RAMS positioning in relation to the programme 12
6.2 RAMS resources 13
6.3 Distribution of the responsibilities for RAMS 14
6.3.1 Responsibilities of the customer 14
6.3.2 Responsibilities of the users 14
6.3.3 Responsibility of the suppliers 14
6.4 Documentation management 15

7 Construction of RAMS 15
7.1 General 15
7.2 RAMS targets 16
7.2.1 Responsibilities 16
7.2.2 Principles for defining and expressing targets 17
7.3 Technical risk control 18
7.3.1 General 18
7.3.2 Identification and analysis of technical risks 18
7.3.3 Criticality assessment 19
7.3.4 Prioritization of the identified risks 19
7.3.5 Selection of unacceptable risks 19
7.3.6 Reduction of unacceptable risks 20
7.3.7 Management of technical risks 21
7.4 Execution logic 21
7.4.1 General 21
7.4.2 Activities during the feasibility phase 21
7.4.3 Activities during the definition and development phases 22
7.4.4 Activities in the production phase 23
7.4.5 Activities during the operating phase 23
7.4.6 Activities during the disposal phase 23
7.5 Growth of RAMS 24
7.5.1 General 24
7.5.2 Integrated RAMS growth programmes 25
7.5.3 Specific RAMS test and growth programmes 25
7.6 Documentation of the RAMS studies and digital continuity 26
7.6.1 Documentation of the RAMS studies 26
7.6.2 Digital continuity 27

8 RAMS management 28
8.1 General principles 28
8.2 Provisions 29

8.3 RAMS plan **29**
8.4 Relations with quality assurance **30**
8.5 Relations with system engineering **30**
8.6 Relation with the Integrated Logistics Support (ILS) process **31**
8.7 Relations with the human factors analysis process **31**
8.8 Relations with cybersecurity **31**
Annex A (informative) Examples of a RAMS plan template **33**
Annex B (informative) Examples of RAMS requirements in programmes **34**
Annex C (informative) Tasks to be performed in the various phases of a programme **35**
Bibliography **39**