

ISO 5461:2025-05 (E)

Space systems - Failure reporting, analysis and corrective action (FRACA) process requirements

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms, definitions and abbreviated terms	1
3.1	Terms and definitions	1
3.2	Abbreviated terms	3
4	General requirements	4
4.1	Overview of FRACA process	4
4.2	Failure reporting	5
4.3	Failure verification	5
4.4	Failure analysis	5
4.5	Corrective action	6
5	Tailoring requirements	7
5.1	General	7
5.2	Level 1 FRACA process	8
5.2.1	FRACA process management and resources authorization	8
5.2.2	Identification or determination of FRACA process requirements	8
5.2.3	Development or reuse of a FRACA procedure	9
5.2.4	Implementation and coordination of a FRACA process	10
5.2.5	Identification, documentation, reporting and assessment of residual failure risk	11
5.2.6	Implementation of approved corrective action(s)	11
5.2.7	Verification and or validation of corrective actions and failure events	11
5.3	Level 2 FRACA process	12
5.3.1	Documentation and approval of a FRACA plan	12
5.3.2	Implementation and coordination of a FRACA process	12
5.3.3	Verification of reported failures modes	12
5.4	Level 3 FRACA process	12
5.4.1	Implementation and coordination of a FRACA process	12
5.4.2	Failure analyses, corrective actions, and failure trending	13
5.5	Level 4 FRACA process	13
5.5.1	FRACA process audit	13
5.5.2	FRACA process improvement	13
5.6	Level 5 FRACA process	14
5.6.1	FRACA process continuous improvement	14
5.6.2	FRACA training and model-based systems engineering integration	14
5.6.3	Reliability development growth testing support	14
Annex A (Informative)	Supplier's integrated FRACA process	16
Annex B (Informative)	Products safety or mission severity category definitions	17
Annex C (Informative)	Qualitative probability level criteria	19
Annex D (Informative)	Notional shop replaceable unit (SRU) failure mode distribution	21
Bibliography		22