

Charter

Document Reference:
FSC-2026-2625-C

Issue Status:
Active

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DOCUMENT VERIFICATION MATRIX			
PREP	REV	APP	REL
✓	✓	—	—
Preparation and review active.			

In-Process Functional Safety Charter (FSC)

AUTONOMOUS SYSTEMS & ROBOTICS FRAMEWORK ALIGNMENT

Application Area	AI-driven industrial robot cells and mobile manipulation for warehouse and logistics automation
Product Line	Dexterity Mech and DexR (AI-driven picking, packing and palletizing robots)
Standards in Scope	ISO 10218-1/-2 / ISO/TS 15066 / ANSI/RIA R15.06 / ANSI/A3 R15.08 / ISO 3691-4 / ISO 13849-1 / IEC 61508 / ISO 8800 (UL 3100 considered for the mobile platform)
ID-No.	# FSC - 2026 / 2625-C
Charter Recipient	Dexterity
Safety Lifecycle Partner	Critical Systems Analysis, LLC

PROGRAM EXECUTION TRACKS

- Functional safety gap analysis against ISO 10218-1/-2:2025, ISO/TS 15066, ANSI/RIA R15.06, ANSI/A3 R15.08 and ISO 3691-4
- On-site robot cell and safeguarding review
- Hazard and risk analysis (HARA) with safety architecture mapping
- Safety requirements specification (SRS) for Mech and DexR
- Verification and validation planning under ISO 13849-1 / IEC 61508
- AI component safety assurance under ISO 8800
- Safety case roadmap toward third-party assessment

Issue Date:	2026-08-10
Review Cycle:	Quarterly
Validity:	While Proposals 2625-C / 2626-C remain active

Under contract with Critical Systems Analysis (Proposals 2625-C / 2626-C).

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