AF 9100:2026

Aerospace Quality Management System

REGISTER

Methods, Samples, Verification and Evidence Register

AF-RG-9100-010

FIRST EDITION

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Aerospace Federation
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Publication identity and application

Control	Publication value
Title	Methods, Samples, Verification and Evidence Register
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Responsible owner function	Record register custodian
Primary source anchors	7.7, M, AH.5
Delivery status	Prepared implementation companion. Actual approval, adoption, effectivity and operational decisions are recorded separately.

Use and document-control boundary

This companion implements the supplied AF 9100 requirement basis without changing the original standard. Its process allocation, examples, checklists and record design are authored implementation material. Actual mission or product limits, specialist procedures, permissions and genuine observations must be completed before consequential use. Applicable source minima and independent decision conditions cannot be reduced by this companion.

The printed edition date identifies the companion series; it is not evidence that later preparation, review or operational decisions occurred on that date. New support codes in this set are proposed allocations for controlled registration. Established AF-IG-9100-001, AF-FAQ-9100-001 and AF-TR-9100-001 identities are retained; earlier files, the corporate master list and ASTRA codes are not overwritten.

Equivalent combined or digital records are permitted when all required fields, relationships, authority and history remain intact. A completed PDF field or typed name is not evidence of an authenticated approval. Blank records in this delivery contain no invented applicant, signature, event or result.

Interactive fields are blank by default. Save a working copy, use continuation records where necessary and preserve raw supporting evidence outside the PDF through controlled references. Separate issued PDFs are the authoritative interactive copies; the combined reading edition is flattened.

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Select actual scope → complete application criteria → use the applicable procedure and technical book → capture authentic evidence → evaluate every applicable condition → obtain the required independent decision. Document availability does not establish implementation or conformity.

1 Register purpose and permitted use

This PDF register defines and captures a controlled index of the corresponding source records. It is not a deployed database, automatically enforcing workflow or calculator. Keep original signed decisions and raw evidence in the authorized repository and use this register to locate and reconcile them.

Source form	Entry source
AF-FR-9100-005	Technical Result and Decision Rule
AF-FR-9100-018	Calibration, Method Validity and Uncertainty Budget
AF-FR-9100-023	Sample, Verification Campaign and Technical Report

2 Field dictionary and entry rules

Field	Entry and validation rule
Evidence/test/sample ID	Use a unique resolvable identity or exact source reference; preserve parent-child and prior-version relationships during export.
Requirement	Record the actual controlled value and its source record; do not infer completion or a favorable state from a blank field.
Object/configuration	Record the actual controlled value and its source record; do not infer completion or a favorable state from a blank field.
Method/version	Record the actual controlled value and its source record; do not infer completion or a favorable state from a blank field.
Condition and range	Record the actual controlled value and its source record; do not infer completion or a favorable state from a blank field.
Equipment/personnel	Record the actual controlled value and its source record; do not infer completion or a favorable state from a blank field.
Raw-data source	Record the actual controlled value and its source record; do not infer completion or a favorable state from a blank field.
Validity state	Record the authorized decision and supporting evidence. Document state, evidence validity, requirement conclusion and operational status are distinct.
Uncertainty/rule	Include units, denominator and interpretation; use finite valid inputs, preserve precision and retain unknown separately from zero.
Actual result	Record the actual controlled value and its source record; do not infer completion or a favorable state from a blank field.
Limitations	Record the actual controlled value and its source record; do not infer completion or a favorable state from a blank field.
Reviewer	Record the actual controlled value and its source record; do not infer completion or a favorable state from a blank field.
Custody and change	Record the actual controlled value and its source record; do not infer completion or a favorable state from a blank field.

3 Controlled entry, review and handover

Define intended reliance. Identify the decision, consequence, algorithm, data model, units, interfaces, user roles and functions capable of creating or hiding a defect.

Control the baseline. Preserve source or equivalent executable definition, dependencies, parameters, access and version. Record the deployed configuration and distinguish test from live records.

Test expected behavior. Use independently calculated known answers plus boundary, missing, malformed, wrong-unit and prohibited-state cases. Include attempts to approve with expired authority or open findings.

Verify original evidence. Reconcile ingestion to the actual source, object, version and event time. Identify generated, simulated and reconstructed material; a hash proves neither physical truth nor engineering validity.

Test meaningful recovery. Restore identities, configuration links, decisions and events after the recovery point. Reconcile contents and relationships as well as totals. A running application with broken evidence links remains held.

Release and preserve. Record actual local acceptance, remaining restrictions, trained users and revalidation triggers. Transfer usable records and accepted custody before cutover; PDFs are record artifacts, not a deployed database.

4 Blank register entry — repeat as required

Register entry ID / source form record

Actual object / route / scope / configuration / period

Evidence/test/sample ID

Requirement

Object/configuration

Method/version

Condition and range

Equipment/personnel

Raw-data source

Validity state

Uncertainty/rule

Actual result

Limitations

Reviewer

Custody and change

Reviewer and genuine approval reference

Current unresolved gaps / next required action

Receiving custodian / original history and evidence location

5 Export, reconciliation and exception record

Export identity / source and destination / authorized purpose

Record counts and unique keys reconciled

Identity, configuration, version and relationship comparison

Units, time basis, access and status meaning preserved

Missing, duplicate, stale or contradictory entries

Corrective work and original failing-case retest

Receiving acceptance and unresolved duties

Equal record totals do not demonstrate equal meaning. A broken evidence relationship or incorrect current status prevents reliance on the affected entries until resolved. The original source and required retention controls remain effective.