



AF-IG-9300-001

Implementation Guide

Space / Aviation / Defense

FIRST EDITION

AF 9300 SUPPORTING DOCUMENT

Document identity and use

FIRST EDITION MANUSCRIPT - Prepared for Aerospace Federation review

Field	Controlled identity
Document	AF-IG-9300-001 - Implementation Guide
Parent standard	AF 9300 - Aerospace Testing, Verification & Qualification
Edition / language	FIRST EDITION / English master text
Family	Companions
Primary source anchors	0-32; Annexes A-V
Suggested local owner	Implementation lead
Authority	Publisher approval and effective date are not assigned. Local use requires authorized adoption and completed parameters.

Use with the main standard

This document implements the identified AF 9300 clauses and annexes. Read the complete applicable requirements in the main standard. The source anchors are navigation references; a template does not replace technical judgement, evidence, permission or eligible approval.

AF-ML-9300-001 lists the complete supporting set. AF-CM-9300-001 maps the main clauses and annexes to working documents. AF-TP-9300-001 establishes the common local parameter baseline; add the relevant discipline profiles.

Record control

Identify the object, configuration, record owner and dates. Reference attachments by stable identifier and version. Keep superseded evidence and decisions traceable. Use the approved local retention, access and authentication arrangements. No test level, numerical limit, interval or acceptance value is assigned by a blank template.

Implementation model: Translate the stated responsibilities and controls into the actual organization. Informative examples remain explanatory; use approved programme-specific values for operational decisions.

1 Select a representative pilot

Choose a campaign with real measurement and decision dependencies. Define its object, sites, requirement baseline and intended conclusion. Appoint the programme owner, technical authority, data owner and decision authorities. Keep these functions distinct even where one eligible person performs more than one role.

1.1 Establish the local baseline

Complete AF-FR-9300-001, AF-TP-9300-001 and all applicable Annex B parameters. Use the master list to select the relevant discipline profiles. Record N/A with reasons and approval. Do not enter example numbers as default test levels, confidence values or acceptance limits.

2 Build the requirement-to-evidence route

Create AF-RG-9300-001 and one AF-FR-9300-002 for each complex requirement disposition or equivalent linked records. Define object, condition, criterion, method, article and reviewer. Break compound conditions into assessable components. Select representative articles before evidence is known.

2.1 Plan the campaign

Use AF-FR-9300-003 and AF-SC-9300-001. Identify destructive effects, conditioning, sequence dependencies and interfaces. Allocate calibration, method validation, model assessment, supplier access and independent reviews as prerequisites. An unavailable test does not justify deleting the requirement.

3 Demonstrate capability before use

Use the method, facility, metrology, uncertainty and DAQ procedures. Test both favorable and adverse cases. Validate the complete acquisition-to-decision route, including units, boundaries, missing data and processing. Register demonstrated ranges and restrictions; release methods only for those ranges.

3.1 Establish people and emergency readiness

Authorize roles through practical evidence of competence. Define command and protective actions for the actual hazards. Use competent specialist procedures for hazardous activities. Link emergency interfaces to the test's circumstances and facility permissions.

4 Execute a complete evidence cycle

Use the readiness checklist and release form. Record actual article/configuration, achieved conditions and native observations. Deliberately exercise the anomaly route with a controlled nonhazardous rehearsal. Demonstrate pause, evidence preservation, impact review and eligible restart without discarding the original event.

4.1 Review the result independently

Apply the approved uncertainty and decision rule to valid results. Check the complete requirement, not only a convenient parameter. Record PASS, FAIL, HOLD or justified N/A with source evidence and reviewer authority. Verify that a new reviewer can reproduce material conclusions.

5 Issue a bounded decision

Use the report form and the separate qualification or acceptance dossier as appropriate. State the object, configuration, conditions, basis and limitations. Do not use an item acceptance test as an unqualified design-life demonstration. Record the authority actually responsible for the decision.

5.1 Test continued validity

Introduce a documented hypothetical change and trace its effect through articles, requirements, evidence, reports and claims. Use AF-FR-9300-020/021. Show which prior evidence is retained, why, and which gaps require new work. Exercise amendment and notification controls.

6 Validate the record system

Recover a complete evidence package and its relationships. Check raw observations, scripts, criteria, anomalies, approvals and report states. Verify confidentiality and role controls. Resolve broken links and state changes before relying on the recovery process.

6.1 Audit the pilot

Use AF-CM-9300-001 as the coverage route and the selected checklists as examination aids. Record findings and corrective actions in AF-FR-9300-022. A blank or completed template alone is not implementation evidence; review how the actual workflow operated and whether adverse cases were contained.

7 Adopt and scale

Use AF-FR-9300-024 to record local adoption of the exact controlled publication and support set. Approve the local profiles, procedures, roles, records and transition arrangements. Deploy by activity and demonstrated capability. Maintain a current master list and monitor changes to technical assumptions, resources, suppliers and claims.

Required evidence: The pilot closes only when its end-to-end trace, adverse-case handling, bounded decision, change assessment and recovery route are demonstrated. Unresolved dependencies remain visible with owners and blocked decisions.