AEROSPACE FEDERATION

ASTRA

AEROSPACE STANDARD

ASSESSMENT CHECKLIST

Common Core and Release-Gate Checklist

AF-AST-CL-001

FIRST EDITION

30 September 2026 | English master text

Aviation / Space / Defense / Future systems



Aerospace Federation
af.org

Publication identity and use

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Publication and operation	Prepared publication. Actual technical approval, consultation, institutional adoption, operational effectivity and individual scope activation require separate authentic records.

Purpose and application

Requirement-level evaluation of the common core, provider/governance controls and integrated release gates. Source conditions are reproduced in full; every response requires attributable evidence, sampling and a reasoned conclusion. Family checklists are used with CL-001, the actual profile and all triggered normative annexes.

Source requirements and added implementation detail

The controlling ASTRA source is identified above by content fingerprint. Numbered source clauses and annexes retain their own authority. The retained operating material is restructured and expanded with implementation methods, additional profile controls, worked synthetic examples, decision diagrams and record contracts. Added implementation detail is not presented as an earlier institutional approval or as a change to the supplied core standard. Any additional binding criterion requires the applicable technical adoption process.

The displayed publication date identifies the edition; it is not a fabricated authoring, test, approval or operational date. Actual records retain genuine event times and controlled versions. No named outside organisation or standard is incorporated as a normative reference. AF internal instruments and separate legal or contractual duties remain applicable within their actual scope.

Acceptance boundary

A positive grant requires every applicable mandatory condition to PASS, every N/A to have independent justification, every in-scope nonconformity to be verified closed, and competent independent authority. HOLD, unknown state, missing evidence, a favourable average, a signature image or a completed form cannot substitute for those conditions.

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1 How to use the requirement and child-condition checklist

Apply the following logic to the exact evaluated object and responsible function. A procedural checkpoint, product characteristic, competence decision and public credential are different objects. Their states shall not be collapsed into one score. Source: ASTRA 62.1–62.7 and Annex AL.

State	Sufficient basis	Required next action
PASS	Applicable; current approved predicate met by valid, purpose-specific evidence.	Retain the original evidence and bounded inference. Other mandatory gates still apply.
FAIL	Applicable; valid evidence demonstrates that the approved predicate is not met.	Contain affected use; retain the failure; assess cause, extent and required corrective verification.
HOLD	Applicability, criterion, method, evidence, uncertainty or authority is unresolved.	Resolve the missing basis. Do not manufacture a value, favourable default or product-defect conclusion.
N/A	Activity trigger and retained responsibility are absent; independent exclusion approval exists.	Retain the scope-specific reason and reassess when activity or responsibility changes.
UNSET	Only an uncompleted field in this PDF; not a conformity state.	No conclusion is recorded. Complete review before the field can support a decision.

For a compound source clause, create a child-condition ledger containing every separately testable condition, location, phase and operating mode. A sentence-level checkpoint is a navigation aid, not permission to merge unrelated predicates. Each child receives an ID, responsible owner, criterion, method, source evidence, uncertainty where relevant, current state and independent review. The parent cannot PASS while any mandatory child is FAIL, HOLD or UNSET.

An acceptable measurement interval and an acceptable authority chain are independent prerequisites. Use finite, unit-consistent, unrounded values; negative uncertainty, reversed limits, unknown version or wrong-object evidence produce HOLD. For inclusive [L,H] and accepted interval [a,b], PASS requires $a \geq L$ and $b \leq H$; FAIL requires $b < L$ or $a > H$; otherwise HOLD. Approved one-sided or exclusive boundaries retain their own declared predicate.

Positive-decision conjunction

Every applicable mandatory child is PASS AND each N/A is independently justified AND every in-scope nonconformity is verified closed AND scope, competence, independence and actual authority are valid AND required panel participation and voting rules are satisfied. No average, majority preference or payment supplies missing evidence.

Child-condition ledger and complete population

Stable source clause and child IDs; object, phase/mode, parameters, predicate, evidence, reviewer, actual dates, state and open actions. Use linked controlled continuations rather than hidden scrolling text.

Each source sentence is a separately recordable checkpoint below. Enumerations and compound conditions must additionally be expanded into a local child ledger under Clause 62.1. The printed sentence-level rows preserve source wording; they do not claim to predefine every possible application-specific child. The full relevant source annexes remain mandatory. UNSET is an uncompleted UI field, never an assessment result.

2 Evidence validity and decision sequence

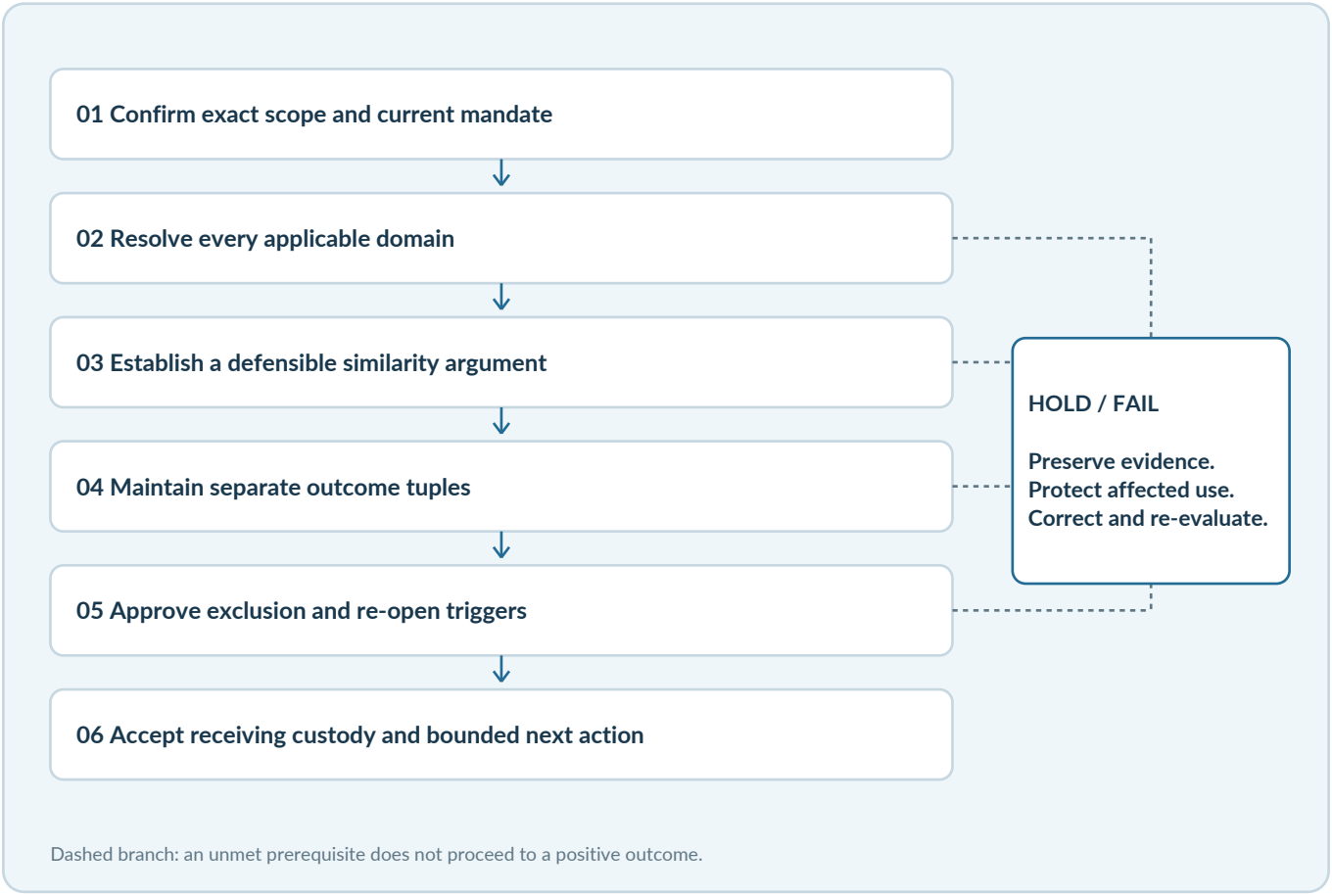


Figure — Implementation sequence for AF-AST-PR-004. Explanatory diagram; the source prerequisites and actual authority remain controlling.

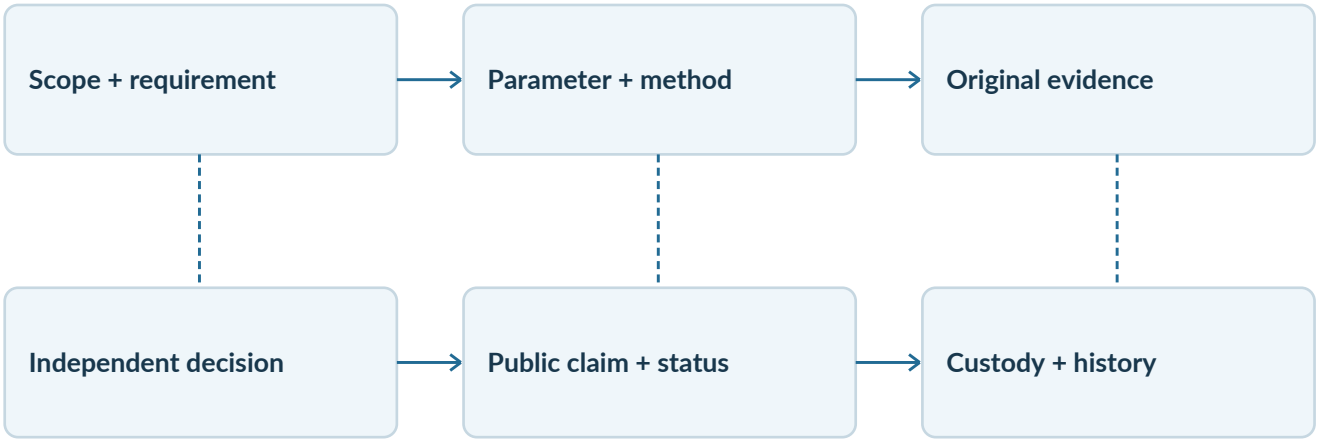


Figure — Scope-to-custody evidence relationships. A relationship is validated for its decision purpose, not merely because two identifiers exist.

3 Complete source-subclause checkpoint population

0 — Purpose, reading route and status

0.1 — Intended use

Source: AF-AST-STD-001 / FIRST EDITION, p. 9; exact source subclause 0.1.

1. This standard establishes requirements for the AF ASTRA scheme owner, accrediting and assessment operators, applicants and holders, according to the responsibilities assigned to each.	UNSET
2. Its purpose is reproducible, impartial and technically justified evaluation, not the accumulation of certificates.	UNSET
3. Programme membership, commercial relationships and operational capability shall remain distinguishable.	UNSET
4. The reader shall establish the applicable family, object, legal entity, site, technical profile and decision type before selecting requirements.	UNSET
5. A programme-wide rule applies to its responsible function; it shall not automatically impose the whole operating system on an individual candidate or a single test customer.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Applicability record; responsible-function map; selected family, object and profile.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

0.2 — How to assemble the applicable requirements

Source: AF-AST-STD-001 / FIRST EDITION, p. 9; exact source subclause 0.2.

1. Use Clauses 1–4 for boundary and authority, Clauses 5–10 for organisational and evidence controls, Clauses 11–16 for assessment, Clauses 17–25 for the selected family or provider, and Clauses 26–31 for governance and future methods.	UNSET
2. Apply every triggered technical requirement in Clauses 32–80 and every relevant normative annex.	UNSET
3. Clause 62 and Annex AL define explicit acceptance logic.	UNSET
4. Annex AK establishes space-domain applicability	UNSET
5. Annex AM gives checked synthetic calculations	UNSET
6. Annex AN contains decision diagrams	UNSET

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

0.2 — How to assemble the applicable requirements — continued

Source: AF-AST-STD-001 / FIRST EDITION, p. 9; exact source subclause 0.2.

1. Annex AO defines mandatory parameter schedules.	UNSET
2. Compatible requirements accumulate.	UNSET
3. A shorter form, commercial proposal or local checklist shall not remove an applicable condition.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Case requirement index; profile version ; normative-annex selection.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

Evidence / method / parameter / sample references and limits

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0.3 — Normative language and examples

Source: AF-AST-STD-001 / FIRST EDITION, p. 9; exact source subclause 0.3.

1. Shall expresses a requirement, shall not a prohibition, should a recommendation and may permission.	UNSET
2. Requirements apply after valid adoption within their stated scope and lawful participation terms.	UNSET
3. Examples, assumed values, suggested project codes and worked calculations remain informative where identified.	UNSET
4. A normative requirement to retain specified information does not make a filled example an authentic operating record.	UNSET
5. Equivalent records and digital formats may be used when the required information, relationships, approvals and history are preserved.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Consistent interpretation; identified example data; equivalent-record mapping.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

Evidence / method / parameter / sample references and limits

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0.4 — Edition and operational effectivity

Source: AF-AST-STD-001 / FIRST EDITION, p. 9; exact source subclause 0.4.

1. The programme name is AF ASTRA.	UNSET
2. The standard identifier is AF ASTRA-100:2026 and the controlled-document code is AF-AST-STD-001.	UNSET
3. The display title is ASTRA — AEROSPACE STANDARD.	UNSET
4. The publication identity is FIRST EDITION, 30 September 2026.	UNSET
5. Actual technical approval, institutional adoption, operator appointment and scope activation shall be recorded separately under Clauses 31 and 61.	UNSET
6. The displayed publication date does not assert that these events occurred or that every later authored provision existed at that date.	UNSET

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0.4 — Edition and operational effectivity — continued

Source: AF-AST-STD-001 / FIRST EDITION, p. 9; exact source subclause 0.4.

1. No live outcome shall be issued for a scope whose activation conditions remain unmet.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Publication master; actual approval and effectivity; scope-release register.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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0.5 — Relationship to the existing AF system

Source: AF-AST-STD-001 / FIRST EDITION, p. 10; exact source subclause 0.5.

1. AF ASTRA develops the eight-family architecture without reopening the final AF 9100:2026 text.	UNSET
2. AF-CON-001 governs institutional authority, and AF-SR-001 governs the existing common scheme framework within its adopted scope.	UNSET
3. This standard makes the programme-specific controls explicit but does not silently amend either instrument.	UNSET
4. Annex N identifies the compatibility actions and the distinction between the inherited architecture and newly specified operating requirements.	UNSET
5. A proposed wider use of accreditation terminology requires the formal higher-instrument review described there before public use.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Compatibility review; unchanged publication baselines; approved transition decisions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

Evidence / method / parameter / sample references and limits

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1 — Scope, programme families and assessment boundaries

1.1 — Sector and lifecycle coverage

Source: AF-AST-STD-001 / FIRST EDITION, p. 10; exact source subclause 1.1.

1. The programme may cover civil and military aviation; space systems and operations; land, maritime, air, space and associated defense industry; heavy and advanced industry; and vehicles, equipment and services used for defense, aerospace support or space exploration.	UNSET
2. It encompasses research, design, manufacture, integration, test, supply, operation, maintenance, modification and retirement where a released profile exists.	UNSET
3. The sector description is a development remit, not an assertion that AF or any assessor possesses every listed capability.	UNSET
4. Sensitive and hazardous work shall be limited to authorised specialists and lawful evidence arrangements.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Sector and lifecycle scope; released-profile check; authorised access arrangements.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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1.2 — Eight-family structure

Source: AF-AST-STD-001 / FIRST EDITION, p. 10; exact source subclause 1.2.

1. The eight families are F01 Management Systems Assurance	UNSET
2. F02 Critical Processes and Products	UNSET
3. F03 Testing and Inspection	UNSET
4. F04 Education Programmes	UNSET
5. F05 Airports and Aerodromes	UNSET
6. F06 Aircraft Maintenance and Technical Services	UNSET

Evidence / method / parameter / sample references and limits

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1.2 — Eight-family structure — continued

Source: AF-AST-STD-001 / FIRST EDITION, p. 10; exact source subclause 1.2.

1. F07 Ground Operations and Aviation Support Services; and F08 Carbon, Environment and Climate Assurance.	UNSET
2. Annex A defines their boundaries and links.	UNSET
3. Family labels organise scope selection and do not establish certificate types.	UNSET
4. Individual methods, disciplines, aircraft types, service stations or environmental modules shall not be counted as additional programme families.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Family catalogue; deduplication record; outcome class for each application.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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1.3 — Object and responsibility tuple

Source: AF-AST-STD-001 / FIRST EDITION, p. 10; exact source subclause 1.3.

1. Each application shall identify the responsible legal entity, actual performer, object type, family and module, sites and remote functions, configuration or programme version, lifecycle role, applicable period, criticality, profile and exclusions.	UNSET
2. Products, services, processes, people, supplier scopes, educational programmes, assessment providers and environmental statements are separate objects.	UNSET
3. A combined dossier may share evidence but shall provide a separate conclusion and status history for each claimed object.	UNSET
4. Where a duty is outsourced, the record shall identify both the performer and the organisation retaining accountability.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Complete scope tuple; separate requested outcomes; actual-performer map.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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1.4 — Group, site and interface limitations

Source: AF-AST-STD-001 / FIRST EDITION, p. 10; exact source subclause 1.4.

1. Group governance evidence may be reused after its relevance and local implementation are demonstrated.	UNSET
2. It shall not grant unexamined competence to every subsidiary, airport, station, faculty, workshop or laboratory.	UNSET
3. Scope schedules shall distinguish a headquarters function from operational delivery.	UNSET
4. An airport outcome does not include independent tenants by default; an MRO outcome does not include its training centre or all internal test methods automatically.	UNSET
5. Shared premises, a common owner or one purchasing contract shall not erase those boundaries.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Entity/site hierarchy; interface agreements; scope-specific coverage and decisions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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1.5 — Activity-based applicability

Source: AF-AST-STD-001 / FIRST EDITION, p. 11; exact source subclause 1.5.

1. The applicant shall make a reasoned applicability decision for every common and family requirement.	UNSET
2. Non-applicability requires the actual activity and retained responsibility to be absent, without undermining a claimed outcome.	UNSET
3. Small size, another certificate, customer nomination or outsourcing alone does not justify exclusion.	UNSET
4. A provider that changes from distribution to repair, or from laboratory testing to product certification, shall reassess its scope before making the broader claim.	UNSET
5. Technical reviewers shall approve material exclusions and record the supporting evidence.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Approved applicability matrix; technical rationale; review triggers and version history.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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1.6 — Out-of-scope and emerging activities

Source: AF-AST-STD-001 / FIRST EDITION, p. 11; exact source subclause 1.6.

1. Heliports, vertiports, spaceports, specialist air-navigation activities, novel fuels, human spaceflight and restricted defense applications require dedicated criteria and verified technical coverage before activation.	UNSET
2. Their inclusion in the portfolio does not permit operation under a conventional airport or generic service profile.	UNSET
3. A request outside the released catalogue may enter a development or expression-of-interest register, not an implied live accreditation route.	UNSET
4. Airline flight operations remain outside F07 unless a separate profile and lawful delivery arrangement are expressly released.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Development request; scope exclusion; dedicated supplement and release decision.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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2 — Definitions, outcome classes and interpretive controls

2.1 — Accreditation and competence

Source: AF-AST-STD-001 / FIRST EDITION, p. 11; exact source subclause 2.1.

1. Accreditation within the current AF framework is an independently decided attestation that a conformity-assessment body is competent, impartial and consistently operated for specified assessment activities.	UNSET
2. Competence concerns demonstrated ability to perform a defined task and reach valid conclusions, including recognising limitations.	UNSET
3. A broad sector title, legal registration, quality manual or equipment list does not demonstrate competence.	UNSET
4. The accredited scope shall identify activity, object or method family, range or conditions, location, resources and limitations sufficient to prevent a misleading interpretation.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Technical competence scope; witnessed performance; independent accreditation decision.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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2.2 — Recognition, qualification and certification

Source: AF-AST-STD-001 / FIRST EDITION, p. 11; exact source subclause 2.2.

1. Recognition records that a specified institutional, educational, operational or service capability meets its approved criteria.	UNSET
2. Qualification records a demonstrated task, process or supply capability under defined conditions.	UNSET
3. Certification records conformity of a stated product, service, process, system or person to specified requirements.	UNSET
4. The relevant record shall name the result actually reached.	UNSET
5. None of these labels is interchangeable with accreditation of the body producing the result, membership, attendance, an award, a professional licence or a public operating permission.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Outcome classification; exact criterion set; approved statement and limitations.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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2.3 — Verification and validation

Source: AF-AST-STD-001 / FIRST EDITION, p. 11; exact source subclause 2.3.

1. Verification of a statement examines whether its historical information and assertions are supported for the declared boundary and period.	UNSET
2. Validation examines the reasonableness of assumptions, methods and prospective claims for an intended future use; it does not establish that a forecast will occur.	UNSET
3. Laboratory method validation is a separate technical activity demonstrating method fitness.	UNSET
4. The engagement shall state which meaning applies.	UNSET
5. A favourable review of a transition plan shall not be published as an achieved emissions reduction, and an accredited verifier is not automatically the holder of a verified environmental claim.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Engagement objective; statement identity; historical/prospective classification; bounded conclusion.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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2.4 — Programme name and public designations

Source: AF-AST-STD-001 / FIRST EDITION, p. 12; exact source subclause 2.4.

1. AF ASTRA may be described as an accreditation and assurance programme.	UNSET
2. An individual outcome shall use its precise class from Annex A.	UNSET
3. Under the present protected AF instruments, educational and operational applicants use the relevant programme or capability recognition route unless an expressly adopted higher-instrument change permits a different qualified designation.	UNSET
4. The programme name shall not be abbreviated in a way that implies every participant is accredited.	UNSET
5. No certificate or registry flag shall apply an expanded accreditation title merely because it appeared in an earlier planning heading.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Permitted-claims register; terminology clearance; applicable authorisation for any changed title.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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2.5 — Evidence, witnessing and technical profile

Source: AF-AST-STD-001 / FIRST EDITION, p. 12; exact source subclause 2.5.

1. Evidence is information capable of competent verification and relevant to a stated condition.	UNSET
2. Witnessing is attributable observation of representative work under known conditions, including necessary setup, execution and conclusion.	UNSET
3. A technical profile is a controlled definition of the object, intended use, requirements, methods, acceptance rules, limitations and continuing controls.	UNSET
4. A curated presentation is not equivalent to an end-to-end witness unless its representativeness is justified.	UNSET
5. Hashes, signatures, video and artificial-intelligence summaries can support integrity or access but do not prove that the original observation is correct.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Profile; evidence-purpose links; witness identity and limitations; provenance records.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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2.6 — Requirement status and uncertainty

Source: AF-AST-STD-001 / FIRST EDITION, p. 12; exact source subclause 2.6.

1. Requirement conclusions shall distinguish conforming, nonconforming, approved non-applicability and not yet demonstrated.	UNSET
2. Evidence status shall separately distinguish planned, received, reviewed, accepted for a purpose, rejected, superseded and unavailable.	UNSET
3. An indeterminate measurement or inaccessible essential record shall not be changed to non-applicable merely to close a checklist.	UNSET
4. Confidence in a model, coverage of an uncertainty interval, probability of detection and percentage of completed checklist rows are different quantities and shall not be reported as interchangeable assurance scores.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Controlled status dictionary; recorded transitions; uncertainty and decision interpretation.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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3 — Institutional governance and retained responsibility

3.1 — Scheme ownership and constitutional authority

Source: AF-AST-STD-001 / FIRST EDITION, p. 12; exact source subclause 3.1.

1. Aerospace Federation owns the programme rule set and controls its publication, development, authorised use and registry architecture within its actual rights and powers.	UNSET
2. The Presidential Council remains the corporate Board of Directors; the President leads implementation within recorded authority.	UNSET
3. Programme councils, technical groups and case panels are functional arrangements, not new corporate boards.	UNSET
4. Their mandates shall identify decisions they may make, resources, oversight and limits.	UNSET
5. This standard shall not alter committee election, leadership succession or constitutional voting rules.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Programme charter; verified delegations; functional-body mandates.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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3.2 — Accrediting and delivery entities

Source: AF-AST-STD-001 / FIRST EDITION, p. 12; exact source subclause 3.2.

1. The legal entity making an accreditation decision shall be identified separately from the applicant body and from the entity providing the assessment services being accredited.	UNSET
2. It shall not accredit itself or its own assessment operation, including through nominal reciprocal arrangements.	UNSET
3. It shall not also deliver the conformity-assessment services it accredits or applicant-specific consultancy compromising that accreditation.	UNSET
4. Related training, sector engagement and shared administration shall be assessed for actual influence, finances, access and ownership, with a genuinely independent arrangement where separation is necessary.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Legal delivery model; related-activity analysis; independent oversight and liability arrangements.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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3.3 — Technical committees and programme stewardship

Source: AF-AST-STD-001 / FIRST EDITION, p. 13; exact source subclause 3.3.

1. Permanent voting committee offices shall follow the AF constitutional election arrangements.	UNSET
2. Competent working groups may develop technical proposals without acquiring permanent office or case-decision authority.	UNSET
3. Each active family shall have a responsible technical owner and a maintained work programme.	UNSET
4. Representation shall be balanced sufficiently to expose relevant operator, supplier, professional, education and public-interest concerns.	UNSET
5. No dominant commercial group shall control acceptance criteria to exclude competitors without a defensible technical need.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Committee charter; competence and balance review; technical work programme; recorded objections.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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3.4 — Case separation and decision panels

Source: AF-AST-STD-001 / FIRST EDITION, p. 13; exact source subclause 3.4.

1. Evaluation, independent review, decision and appeal shall be assigned through explicit role checks.	UNSET
2. Final accreditation grants, renewals, extensions and contested adverse decisions shall use three independent authorised panel members: all three participate and at least two support the reasoned outcome, with every mandatory technical gate met.	UNSET
3. A technical reviewer may serve on that panel only when independent of evaluation and separately authorised.	UNSET
4. Other outcome classes use the independent authority specified in the released profile.	UNSET
5. A majority vote cannot resolve missing essential technical evidence by preference.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Assignment matrix; independent review; three-person participation and votes; gate record.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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3.5 — Commercial and leadership boundaries

Source: AF-AST-STD-001 / FIRST EDITION, p. 13; exact source subclause 3.5.

1. Leadership may allocate resources, require procedural correction, commission independent investigation and close an unsafe programme within its powers.	UNSET
2. It shall not order a favourable technical result, remove a justified finding for commercial reasons, substitute an applicant-selected assessor or condition remuneration on grants.	UNSET
3. Membership, funding, sponsorship, investments and training income shall be excluded from technical decision criteria.	UNSET
4. Programme managers shall report attempts to influence decisions through the protected integrity route.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Financial separation; influence log; independent escalation; outcome-neutral remuneration.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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3.6 — Liability, continuity and accountability

Source: AF-AST-STD-001 / FIRST EDITION, p. 13; exact source subclause 3.6.

1. Each operator shall maintain resources and arrangements for its actual liabilities, including suitable insurance or justified equivalent provision where appropriate.	UNSET
2. It shall remain responsible for outsourced technical work and its final decisions.	UNSET
3. Exit or insolvency planning shall protect holders, pending cases, records, status information and lawful transfer.	UNSET
4. An agreement assigning tasks to a contractor shall not be used to disclaim obligations retained by the issuer or to obscure who is answerable for an incorrect conclusion.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Liability assessment; financial capacity; continuity/closure plan; retained-responsibility clauses.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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4 — Rule development, technical profiles and programme activation

4.1 — Development request and feasibility

Source: AF-AST-STD-001 / FIRST EDITION, p. 13; exact source subclause 4.1.

1. A new profile shall start from a defined sector need, intended beneficiaries, output type, failure consequences and available evidence.	UNSET
2. The technical owner shall assess whether a new profile is necessary or an existing one can cover the activity without scope distortion.	UNSET
3. The development record shall consider feasibility, access, resources, conflicts, proportionate burden and the capability required of evaluators.	UNSET
4. A catalogue entry or market demand alone is not approval of a method or authority to solicit formal applications.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Development brief; duplicate-scope review; feasibility and resource decision.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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4.2 — Profile content and acceptance criteria

Source: AF-AST-STD-001 / FIRST EDITION, p. 14; exact source subclause 4.2.

1. Every released profile shall contain the fields in Annex C: exact scope, prerequisites, measurable or defined attribute criteria, methods, sampling, uncertainty, essential controls, competence, sites, witnessing, decision rules, duration, surveillance, records and permissible claims.	UNSET
2. Criterion limits shall be derived from the actual technical and obligation basis.	UNSET
3. They shall be fixed before results are evaluated.	UNSET
4. There shall be no universal tolerance, environmental test load, staff ratio, curriculum credit total or carbon threshold invented to cover unrelated applications.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Complete approved profile; criterion-to-method map; acceptance rationale.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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4.3 — Consultation and technical approval

Source: AF-AST-STD-001 / FIRST EDITION, p. 14; exact source subclause 4.3.

1. Substantive requirements shall receive at least 60 calendar days of public consultation before final technical approval through the applicable AF process.	UNSET
2. Material comments and dissent shall receive recorded dispositions.	UNSET
3. Final normative committee approval requires substantive yes-or-no participation by at least two thirds of eligible voting members and affirmative votes from at least two thirds of those substantive votes, rounded upward.	UNSET
4. Material new requirements introduced after consultation shall undergo further review or consultation proportionate to their effect.	UNSET
5. Actual records shall be retained; preparation does not retrospectively establish consultation.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Notice; comments and dispositions; eligible roll; substantive vote and approval records.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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4.4 — Pilot evaluation and method challenge

Source: AF-AST-STD-001 / FIRST EDITION, p. 14; exact source subclause 4.4.

1. Before release, the operator shall exercise representative normal and adverse cases, including an undefined scope, inaccessible evidence, a failed critical requirement, a conflict, a rejected result, a status change, an appeal and a recovery failure.	UNSET
2. Technical pilots shall examine criterion clarity, discrimination, burden, evaluator agreement and evidence sufficiency.	UNSET
3. Participants shall be told the restricted pilot purpose.	UNSET
4. Synthetic cases shall be labelled.	UNSET
5. A pilot participation letter shall not be a live accreditation, certification or recognition result.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Pilot plan; authentic or clearly synthetic cases; findings; verified correction and limitations.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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4.5 — Activation gate and scope release

Source: AF-AST-STD-001 / FIRST EDITION, p. 14; exact source subclause 4.5.

1. A scope becomes available only after the independent technical readiness check and authorised institutional activation described in Annex P.	UNSET
2. Confirm lawful operator identity, complete profile, competent teams and decision authority, executed terms, working evidence and registry systems, remedies, resources and continuity.	UNSET
3. Release shall identify exact available scopes and unavailable supplements.	UNSET
4. A partially ready portfolio may open only the independently complete profiles; unrelated incomplete development projects need not block that release.	UNSET
5. No profile shall borrow an unverified capability from a future programme.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Scope-release checklist; readiness evidence; authorised effective date; published boundaries.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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4.6 — Interpretation and controlled evolution

Source: AF-AST-STD-001 / FIRST EDITION, p. 14; exact source subclause 4.6.

1. A controlled interpretation may explain an existing condition but shall not change a threshold, expand a claim, waive competence or convert missing evidence into a pass.	UNSET
2. Such changes require formal normative version and prospectively defined transition.	UNSET
3. Review active rules at least every three years and sooner after serious incidents, method failures or material technological change.	UNSET
4. Retain earlier criteria and decisions.	UNSET
5. An urgent factual safety communication may protect users but shall not be disguised as an unconsulted new accreditation requirement.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Interpretation register; change classification; transition assessment; version archive.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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5 — Common organisational capability and management controls

5.1 — Identity, obligations and accountability

Source: AF-AST-STD-001 / FIRST EDITION, p. 15; exact source subclause 5.1.

1. An applicant shall establish its legal identity, ownership or controlling relationships, actual operating locations, responsible managers and relevant permissions.	UNSET
2. It shall maintain an obligation register identifying applicable legal duties, contracts, approved technical information, expiry conditions and responsible owners.	UNSET
3. The assessment shall verify implementation within the declared scope rather than accepting a general compliance declaration.	UNSET
4. Conflicts between obligations shall be referred to competent authorities and affected work held where needed.	UNSET
5. Actual evidence providers shall remain identifiable in protected records.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Legal identity; permissions; responsibility matrix; current obligation register.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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5.2 — Process architecture and controlled work

Source: AF-AST-STD-001 / FIRST EDITION, p. 15; exact source subclause 5.2.

1. The organisation shall define processes, inputs, outputs, interfaces, competence, resources and acceptance conditions needed for its claimed capability.	UNSET
2. Procedures shall be accessible and current where work occurs, including shifts, remote teams and subcontractors.	UNSET
3. Combined documents are acceptable when responsibilities and controls remain clear.	UNSET
4. The effectiveness of the system shall be demonstrated through actual work and outcome records.	UNSET
5. An approved manual without an implemented process shall not satisfy the claim.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Process map; current instructions; actual delivery trails; interface controls.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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5.3 — Risk, safety and opportunity

Source: AF-AST-STD-001 / FIRST EDITION, p. 15; exact source subclause 5.3.

1. Risk assessment shall address credible consequences, exposure, uncertainty, dependencies, human performance and common causes.	UNSET
2. The organisation shall identify essential protective controls and assign residual-risk acceptance to an appropriately competent authority.	UNSET
3. A multiplied ordinal score shall not be treated as a physical probability or used to downgrade an unassessed severe consequence.	UNSET
4. Opportunities for improvement shall be planned separately with measurable benefit and safeguards.	UNSET
5. Emergency decisions shall remain attributable and shall not authorise violation of binding safety requirements.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Hazard/risk register; critical controls; accepted limitations; opportunity plan.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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5.4 — Change, configuration and retained knowledge

Source: AF-AST-STD-001 / FIRST EDITION, p. 15; exact source subclause 5.4.

1. Material changes to people, methods, equipment, software, facilities, tasks, suppliers and legal control shall receive a documented impact review before dependent use.	UNSET
2. Baseline, approval, effectivity, training, verification and affected earlier outputs shall be recorded.	UNSET
3. The organisation shall maintain sufficient knowledge to support long-life services and technical evidence after personnel turnover.	UNSET
4. A renamed product, migrated database or replacement software version shall not silently inherit the demonstrated capability of its predecessor.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Change record; as-operated baseline; knowledge-transfer evidence; reassessment decision.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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5.5 — External provision and sub-tier responsibility

Source: AF-AST-STD-001 / FIRST EDITION, p. 15; exact source subclause 5.5.

1. Outsourced work shall have defined technical scope, actual performer, location, qualification, acceptance, evidence access, notification, records and exit conditions.	UNSET
2. Critical obligations shall reach the lowest relevant performer with acknowledgement and verification.	UNSET
3. The commissioning organisation retains its assigned acceptance and oversight duties.	UNSET
4. A subcontractor certificate shall be checked for authenticity, method, site and current status and treated as relevant evidence, not a substitute for fitness for the actual task.	UNSET
5. Unapproved substitutions shall trigger hold and review.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Supplier scope and status; flow-down; sub-tier acknowledgement; actual work verification.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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5.6 — Continuity, events and learning

Source: AF-AST-STD-001 / FIRST EDITION, p. 16; exact source subclause 5.6.

1. Continuity plans shall address loss of key staff, utilities, premises, suppliers, information and authority.	UNSET
2. Exercises shall test recovery and integrity, not only document availability.	UNSET
3. Occurrences, complaints and nonconforming work shall be traced to affected people, outputs and shared causes.	UNSET
4. Corrective action shall address both occurrence and escape and be checked for effectiveness under representative conditions.	UNSET
5. Good performance statistics shall not conceal missing critical controls or suppress necessary reporting.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Continuity exercise; event-to-output trace; corrective effectiveness; lessons implemented.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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6 — Impartiality, ethical conduct and fair access

6.1 — Institutional and personal conflicts

Source: AF-AST-STD-001 / FIRST EDITION, p. 16; exact source subclause 6.1.

1. The operator shall review financial, ownership, employment, advisory, family, close personal and adversarial relationships at institutional and case levels.	UNSET
2. Declaration is an input to control, not the control itself.	UNSET
3. Where a material threat cannot be effectively managed, the individual or entity shall decline or be replaced.	UNSET
4. For independent third-party evaluation, review and decision, relevant employment or consultancy for the applicant within the preceding 24 months excludes assignment; older relationships remain subject to risk review.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Live conflict register; prior-work screening; independent disposition and assignment restrictions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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6.2 — Participation and equal treatment

Source: AF-AST-STD-001 / FIRST EDITION, p. 16; exact source subclause 6.2.

1. Access shall be based on published eligibility and actual technical capability, not membership, sponsor status, nationality or enterprise size alone.	UNSET
2. Necessary legal restrictions and objective capacity limits shall be applied consistently.	UNSET
3. Fees and scheduling shall be disclosed before commitment.	UNSET
4. Reasonable accessibility and language arrangements shall preserve the competence and evidence being assessed.	UNSET
5. Financial support or fee waivers shall not reduce technical criteria or purchase an outcome.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Eligibility rules; accommodation decisions; fee/capacity terms; equal-treatment checks.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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6.3 — Consultancy, learning and evaluation

Source: AF-AST-STD-001 / FIRST EDITION, p. 16; exact source subclause 6.3.

1. General explanation of a requirement and non-client-specific education may be offered through controlled arrangements.	UNSET
2. A person who designs an applicant's system, corrective solution or technical method shall not independently certify that same work.	UNSET
3. The operator shall distinguish teaching from examination and independent decision.	UNSET
4. Training attendance shall not be represented as competence, and purchasing a particular course shall not be required where verified equivalent preparation is acceptable under the profile.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Service boundaries; training/evaluation separation; assignment conflict checks.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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6.4 — Integrity of records and professional behaviour

Source: AF-AST-STD-001 / FIRST EDITION, p. 16; exact source subclause 6.4.

1. Personnel shall report actual observations, retain adverse evidence, correct errors transparently and decline work beyond their competence.	UNSET
2. They shall reject fabricated logs, manipulated results, outcome-linked benefits, corrupt payments and private lobbying.	UNSET
3. A suspected fabrication shall trigger evidence preservation, impartial investigation and protection of affected decisions; suspicion alone is not a final finding of misconduct.	UNSET
4. Public allegations and confidential case evidence shall be handled through authorised channels.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Conduct undertakings; protected original data; investigation and correction history.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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6.5 — Independent oversight

Source: AF-AST-STD-001 / FIRST EDITION, p. 17; exact source subclause 6.5.

1. The oversight function shall have protected access to unedited results, conflict information, trends and resources needed to challenge programme management.	UNSET
2. It shall report material unresolved threats to a disinterested constitutional route.	UNSET
3. Implicated officers shall not select their own investigator or control the evidence made available.	UNSET
4. Oversight may recommend restrictions, reassessment or governance correction; it shall not replace competent case findings with a preferred commercial result.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Oversight mandate; access and budget; independent reports; resolved or escalated threats.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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7 — Personnel competence, authorisation and continuing practice

7.1 — Function-specific competence

Source: AF-AST-STD-001 / FIRST EDITION, p. 17; exact source subclause 7.1.

1. The operator shall define separate competence requirements for application review, audit leadership, specialist evaluation, sampling, laboratory sign-off, independent review, decisions and appeals.	UNSET
2. Profiles shall state technical fields, methods, criticality, language, professional judgement, evidence interpretation and access permissions.	UNSET
3. A person may hold several roles only when separately qualified and case independence remains valid.	UNSET
4. No generic aerospace assessor designation shall imply mastery of all eight families.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Role profiles; technical authorisation matrix; case coverage check.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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7.2 — Entry evidence and demonstration

Source: AF-AST-STD-001 / FIRST EDITION, p. 17; exact source subclause 7.2.

1. Minimum assessment-role requirements are set out in Annex D.	UNSET
2. Verified experience, programme learning, mentored work, knowledge evaluation and observed practical performance shall be assessed together.	UNSET
3. Numerical minima do not replace demonstrated competence.	UNSET
4. Specialist non-audit assessors shall demonstrate the actual discipline and assessment task; they are not required to pretend that laboratory or educational evaluation is an organisational audit.	UNSET
5. Where the work uses AF 9100, its relevant assessor and personnel requirements remain controlling.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Verified history; learning records; mentored cases; observed demonstration and decision.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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7.3 — Essential steps and assessment security

Source: AF-AST-STD-001 / FIRST EDITION, p. 17; exact source subclause 7.3.

1. Knowledge and practical criteria shall be fixed before candidate evaluation.	UNSET
2. Every predesignated essential safety, integrity and independence step shall be passed; component scores shall not be averaged to conceal failure.	UNSET
3. Equivalent reassessment shall follow evidenced remediation and preserve earlier attempts.	UNSET
4. Examination questions, scenarios, identity checks and scoring shall be secured and validated.	UNSET
5. An automated score or AI recommendation shall not be the sole authority for a practical competence decision.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Assessment blueprint; component/essential-step results; secured attempts; independent authorisation.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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7.4 — Initial assessor population

Source: AF-AST-STD-001 / FIRST EDITION, p. 17; exact source subclause 7.4.

1. Where no established ASTRA assessor population exists, at least two independent competent professionals shall assess each candidate against the stated role and technical criteria.	UNSET
2. Their own competence and conflicts shall be documented.	UNSET
3. Comparable prior work may satisfy specified experience elements only after verification; programme knowledge, witnessed performance and independence shall not be waived.	UNSET
4. Honorary titles, reciprocal self-approval and attendance at an introductory meeting shall not create assessor authority.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Initial-panel qualifications; equivalence map; witnessed task; remaining scope restrictions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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7.5 — Maintenance and inactivity

Source: AF-AST-STD-001 / FIRST EDITION, p. 18; exact source subclause 7.5.

1. Maintain relevant development, current practice and observed performance at the intervals in Annex D.	UNSET
2. Review poor reports, inconsistent decisions, complaints, new technologies and changes in methods as well as activity counts.	UNSET
3. Failure to meet the applicable role minimum shall suspend independent role use until reviewed supervised reactivation.	UNSET
4. An individual shall notify limitations and request support rather than accept a task outside the authorised scope.	UNSET
5. Restoration does not erase earlier affected-work concerns.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Practice/development logs; witnessed reviews; suspension and reactivation; prior-work assessment.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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7.6 — Applicant personnel and task authority

Source: AF-AST-STD-001 / FIRST EDITION, p. 18; exact source subclause 7.6.

1. Applicants shall demonstrate competence of people whose work affects the claimed capability, including contractors, temporary workers and local station personnel.	UNSET
2. Employers shall issue actual task authorisations defining scope, equipment, supervision and review conditions.	UNSET
3. A professional credential, external course or programme recognition is only part of the evidence; it does not itself authorise aircraft release, restricted testing or every task in a facility.	UNSET
4. Changes and inactivity shall trigger review before independent work resumes.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Task analysis; verified competence; employer authorisations; changed-task review.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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8 — Facilities, equipment and metrological assurance

8.1 — Facility suitability and environmental control

Source: AF-AST-STD-001 / FIRST EDITION, p. 18; exact source subclause 8.1.

1. Work locations shall support the actual method, product, learner or service conditions.	UNSET
2. Identify and monitor relevant temperature, contamination, vibration, electromagnetic, access, lighting, space and utility constraints.	UNSET
3. Separate incompatible activities and protect articles and records.	UNSET
4. Temporary, mobile, customer-owned and remote facilities shall meet the same relevant suitability conditions.	UNSET
5. An adverse environmental excursion shall be linked to the work it could affect and shall not be closed merely by restoring room conditions.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Facility scope; environmental limits and logs; excursion/affected-work review.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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8.2 — Equipment identity and fitness

Source: AF-AST-STD-001 / FIRST EDITION, p. 18; exact source subclause 8.2.

1. Equipment, software-controlled instruments, fixtures, tools and reference artefacts shall be uniquely identified and suitable for the required range, resolution, accuracy, uncertainty and duty.	UNSET
2. Verify acceptance before first use, after repair or configuration change, and when validity is questioned.	UNSET
3. Records shall include version, location, maintenance, checks, restrictions and status.	UNSET
4. Calendar calibration alone shall not establish fitness for every method or specimen.	UNSET
5. Out-of-service equipment shall be prevented from supporting an authorised result.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Equipment register; acceptance and checks; method suitability; restricted-use controls.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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8.3 — Traceability and calibration

Source: AF-AST-STD-001 / FIRST EDITION, p. 18; exact source subclause 8.3.

1. Measurement results shall have a technically appropriate documented connection to accepted reference quantities or justified reference bases, with uncertainty contributions and competent calibration evidence.	UNSET
2. Verify the actual service range and result, not only the provider's logo.	UNSET
3. Where direct reference traceability is not technically possible, document the alternative reference, method validation and limitations.	UNSET
4. Do not claim metrological traceability from an unverified manufacturer declaration or a broken chain of comparisons.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Calibration chain; certificates/results; uncertainty contributions; justified alternative basis.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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8.4 — Intermediate checks and due dates

Source: AF-AST-STD-001 / FIRST EDITION, p. 19; exact source subclause 8.4.

1. The responsible technical person shall set calibration and verification intervals using use, drift, environment, history, consequence and applicable requirements.	UNSET
2. Conduct intermediate checks where needed to detect loss of capability between calibrations.	UNSET
3. A due date shall not be extended retrospectively because capacity is unavailable.	UNSET
4. Any prospective interval change requires recorded technical evidence and approval.	UNSET
5. Checks shall challenge actual measuring functions rather than merely confirm that the equipment powers on.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Interval rationale; intermediate checks; prospective approved changes; actual-use status.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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8.5 — Adverse equipment findings

Source: AF-AST-STD-001 / FIRST EDITION, p. 19; exact source subclause 8.5.

1. When equipment is damaged, out of tolerance, misconfigured or otherwise suspect, stop affected use and determine the last demonstrated valid state.	UNSET
2. Review prior results, associated lots, decisions and recipients, using the likely error mechanism and uncertainty.	UNSET
3. Recalibration restores equipment evidence only after acceptance; it does not by itself establish the validity of prior work.	UNSET
4. Amend or withdraw reports and notify affected parties when their conclusions are no longer supported.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Quarantine; look-back interval; impacted results; corrected reports and notifications.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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8.6 — Consumables, materials and reference items

Source: AF-AST-STD-001 / FIRST EDITION, p. 19; exact source subclause 8.6.

1. Control receipt, identity, condition, shelf or out-time, storage, preparation and permitted reuse of materials, standards, test specimens and consumables.	UNSET
2. Establish suitability and homogeneity/stability where reference items support method validity.	UNSET
3. Prevent contamination, substitution and expired material use.	UNSET
4. Externally supplied reference values shall be reviewed for intended use and uncertainty; a nominal value with unknown provenance shall not support an unjustified calibration or conformity conclusion.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Material/reference register; custody; validity and expiry; suitability review.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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9 — Methods, uncertainty and validity of technical results

9.1 — Method selection and contract fit

Source: AF-AST-STD-001 / FIRST EDITION, p. 19; exact source subclause 9.1.

1. Before work, select a method suitable for the actual object, property, range, operating conditions and intended decision.	UNSET
2. Resolve contradictory or obsolete customer instructions and disclose methods outside demonstrated capability.	UNSET
3. The method shall define preparation, setup, execution, data treatment, acceptance and limitations sufficiently for competent reproducibility.	UNSET
4. A familiar method name shall not establish fitness for a new material, geometry, low-level concentration, digital system or service context.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Reviewed method request; authorised procedure; scope/range suitability; resolved ambiguities.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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9.2 — Verification and validation

Source: AF-AST-STD-001 / FIRST EDITION, p. 19; exact source subclause 9.2.

1. Verify established methods in the actual implementation.	UNSET
2. Validate new, non-standard or materially modified methods for the intended use, addressing relevant bias, precision, selectivity, sensitivity, range, robustness and uncertainty.	UNSET
3. Establish acceptance criteria before validation data are assessed.	UNSET
4. Retain failed trials and restrictions.	UNSET
5. Method transfer between sites, instruments, software or personnel requires evidence that material performance remains valid; a shared procedure number does not demonstrate successful transfer.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Validation/verification plan; raw results; acceptance analysis; transfer and limitation records.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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9.3 — Sampling and specimen integrity

Source: AF-AST-STD-001 / FIRST EDITION, p. 20; exact source subclause 9.3.

1. When sampling is within scope, establish the population, selection method, sample size, locations, conditions, randomisation where relevant, transport and preparation.	UNSET
2. Address sampling contributions to uncertainty and limitations of inference.	UNSET
3. A result from a client-selected item shall identify that boundary.	UNSET
4. Sample identity and chain of custody shall survive splitting, pooling, consumption and subcontracting.	UNSET
5. Reject or condition work on unsuitable specimens before interpreting the result as representative.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Sampling plan; population and selection; custody; deviations and restricted inference.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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9.4 — Measurement model and uncertainty

Source: AF-AST-STD-001 / FIRST EDITION, p. 20; exact source subclause 9.4.

1. Evaluate uncertainty appropriate to the reported result and decision.	UNSET
2. Identify measurand, significant corrections, input distributions, sensitivity coefficients, dependence, sample preparation and environmental effects.	UNSET
3. The calculation shall distinguish standard and expanded uncertainty, coverage factor, units and coverage interpretation.	UNSET
4. Known material bias shall be corrected or explicitly handled through an approved model, not hidden in a convenient uncertainty allowance.	UNSET
5. A result shall not inherit an uncertainty copied from an unrelated calibration capability.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Uncertainty budget; corrections; covariance; units; coverage and applicability justification.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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9.5 — Decision rules and boundary results

Source: AF-AST-STD-001 / FIRST EDITION, p. 20; exact source subclause 9.5.

1. Agree the decision rule before evaluation and record its treatment of false acceptance, false rejection, uncertainty and criticality.	UNSET
2. Annex G sets the full-interval rule and alternative-rule controls.	UNSET
3. Conformity demonstrated, nonconformity demonstrated and indeterminate are separate outcomes under that rule.	UNSET
4. Indeterminate work remains held from acceptance pending valid disposition.	UNSET
5. Repeating observations until one passes, rounding a borderline value into compliance or changing the specification after seeing the result is not a valid resolution.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Pre-agreed rule; unrounded inputs; outcome; hold and authorised disposition.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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9.6 — Continuing validity and comparisons

Source: AF-AST-STD-001 / FIRST EDITION, p. 20; exact source subclause 9.6.

1. Maintain a planned programme of internal controls and independent or interlaboratory comparison appropriate to each significant technical field.	UNSET
2. Participation alone is not satisfactory performance.	UNSET
3. Investigate adverse results, assign causes and assess prior reports.	UNSET
4. Where a suitable comparison is unavailable or impracticable, approve a technically justified alternative with evidence of challenge and limitations; lack of participation opportunity shall not be described as external proof of competence.	UNSET
5. Review coverage as methods and volumes change.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Validity-monitoring plan; comparison results; justified alternatives; adverse-result actions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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9.7 — Technical reporting and amendments

Source: AF-AST-STD-001 / FIRST EDITION, p. 20; exact source subclause 9.7.

1. Reports shall identify issuer, client, actual item, scope, method/version , conditions, dates, results, units, uncertainty where needed, deviations, decision rule, conclusion, limitations and authorised signatory.	UNSET
2. Identify subcontracted results and opinions separately.	UNSET
3. A report shall not imply that untested characteristics or future production were examined.	UNSET
4. Amendments shall preserve the original, state the reason and affected conclusion, and reach recipients who relied on an incorrect result.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Attributable report; raw-data linkage; subcontracted-result identity; amendment and recipient log.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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10 — Information, confidentiality and trusted digital evidence

10.1 — Records and provenance

Source: AF-AST-STD-001 / FIRST EDITION, p. 21; exact source subclause 10.1.

1. Records shall connect each requirement to actual work, configuration, performer, method, data, review and decision.	UNSET
2. Maintain unique identifiers, units, time basis, versions, status and change history.	UNSET
3. Corrections shall preserve the earlier information and reasons.	UNSET
4. Evidence shall remain distinguishable from forecasts, simulations and generated text.	UNSET
5. An imported record shall be checked for completeness and semantic mapping; a readable file without its essential relationships is not a complete transferred dossier.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Evidence index; version/provenance; change audit trail; migration checks.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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10.2 — Confidentiality, personal data and controlled technology

Source: AF-AST-STD-001 / FIRST EDITION, p. 21; exact source subclause 10.2.

1. Collect only information needed for the authorised purpose and apply suitable access, transfer, retention and disposal controls.	UNSET
2. Agree legally sufficient confidential review of proprietary or restricted evidence.	UNSET
3. Public registry fields shall be separated from protected technical and personal records.	UNSET
4. A security or secrecy restriction shall not lead to a favourable conclusion based on inaccessible essential evidence.	UNSET
5. Use authorised reviewers, a bounded scope or refusal when adequate lawful review cannot be achieved.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Data classification; permissions; secure review; retained evidence and public-field separation.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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10.3 — Digital tools and calculations

Source: AF-AST-STD-001 / FIRST EDITION, p. 21; exact source subclause 10.3.

1. Validate decision-support tools, spreadsheets, interfaces and automated scoring against their intended use.	UNSET
2. Test correct, boundary, missing, invalid and prohibited states, including expired authority, a mismatched configuration and an open critical finding.	UNSET
3. Control versions, formula changes, permissions and deployments.	UNSET
4. Formula accuracy does not establish input truth or model suitability.	UNSET
5. The accountable user shall verify the actual dataset and limitation before relying on a computed result.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Tool inventory; known-answer/prohibited-case tests; version approval; input review.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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10.4 — Artificial intelligence and generated material

Source: AF-AST-STD-001 / FIRST EDITION, p. 21; exact source subclause 10.4.

1. AI may assist search, classification, drafting and anomaly identification only within an approved use, data boundary and human review.	UNSET
2. Material conclusions shall retain verifiable underlying evidence; generated citations, transcripts, images or observations shall not be passed off as authentic records.	UNSET
3. Evaluate data rights, bias, failure modes, confidentiality and model changes.	UNSET
4. An automated system shall not independently grant, renew, suspend or restore an ASTRA outcome.	UNSET
5. The authorised decision maker remains accountable.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Approved AI use; validated limitations; verified outputs; human decision and audit trail.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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10.5 — Remote access and live evidence

Source: AF-AST-STD-001 / FIRST EDITION, p. 21; exact source subclause 10.5.

1. Before remote assessment, verify identity, connection security, permissions, camera or sensor adequacy, observation continuity and independent selection of evidence.	UNSET
2. Record interruptions, inaccessible areas and substitutions.	UNSET
3. Prerecorded material shall be identified and shall not be represented as live observation.	UNSET
4. Where physical or practical capability cannot be established remotely, arrange on-site or appropriately controlled witnessed work.	UNSET
5. Remote convenience shall not reduce scope coverage, time, competence or critical observation.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Remote suitability review; consent/access; live-session record; supplementary coverage.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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10.6 — Recovery, retention and closure

Source: AF-AST-STD-001 / FIRST EDITION, p. 22; exact source subclause 10.6.

1. Maintain protected backups and test restoration of data, identity, configuration links and current status.	UNSET
2. Meeting recovery-time objectives does not establish restored evidence integrity.	UNSET
3. Retain assessment and decision evidence for at least seven years after the last relevant decision, or longer when justified by applicable obligations, service life or a hold; reconcile any legally required alternative handling without concealing the decision basis.	UNSET
4. Separate unnecessary personal copies and dispose of them under approved controls.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Restore/integrity tests; retention basis; legal holds; secure disposal and closure transfer.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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11 — Application, eligibility and participation agreements

11.1 — Expression of interest and formal application

Source: AF-AST-STD-001 / FIRST EDITION, p. 22; exact source subclause 11.1.

1. The Secretariat may receive expressions of interest for unreleased scopes but shall label them as development enquiries.	UNSET
2. A formal application shall state the requested outcome, available technical profile, legal applicant, authorised representative, sites, affiliations, object, methods, configurations and prior relevant results.	UNSET
3. Receipt does not establish eligibility, acceptance of scope, accreditation or authority to use marks.	UNSET
4. Administrative completeness shall be distinguished from technical readiness.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Enquiry/application classification; representative authority; scope request; dated receipt.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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11.2 — Technical and impartiality review

Source: AF-AST-STD-001 / FIRST EDITION, p. 22; exact source subclause 11.2.

1. Before commitment, verify that the programme is active for the requested scope, the operator is authorised, necessary evaluators and independent decision resources are available, evidence access is feasible and conflicts can be controlled.	UNSET
2. Resolve unclear methods or outcome terminology before quoting an evaluable scope.	UNSET
3. Decline or defer work outside real capability; do not accept fees for an assessment whose essential method has not yet been defined without clearly separate development terms.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Admission review; resource/conflict check; accepted, deferred or refused scope with reasons.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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11.3 — Existing evidence and reuse

Source: AF-AST-STD-001 / FIRST EDITION, p. 22; exact source subclause 11.3.

1. Review prior reports, approvals and certificates for authenticity, issuer competence, actual method, site, period, conditions and configuration.	UNSET
2. Identify precisely which requirement and decision use they support and what remains to be evaluated.	UNSET
3. Include adverse results and restrictions.	UNSET
4. Another outcome shall not be declared equivalent solely from a similar title or scope label.	UNSET
5. Evidence reuse may reduce repeated document requests but cannot remove necessary local implementation, witnessing or independent decision.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Reuse matrix; authenticity/scope checks; residual gaps; controlled access to original evidence.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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11.4 — Binding terms and holder duties

Source: AF-AST-STD-001 / FIRST EDITION, p. 22; exact source subclause 11.4.

1. The agreement shall identify parties, versions, exact services, evidence and access obligations, fees, limitations, independence, reporting, witnessing, subcontracting, liability, confidentiality, marks, registry publication, surveillance, remedies, termination and records.	UNSET
2. The holder shall provide materially complete information, maintain conformity, report changes, permit agreed oversight and cease prohibited claims.	UNSET
3. Governing law and dispute terms require competent selection for the actual relationship; no universal legal jurisdiction is created by this standard.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Executed participation terms; scope schedule; actual authorised signatories.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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11.5 — Authorisation to act for AF

Source: AF-AST-STD-001 / FIRST EDITION, p. 23; exact source subclause 11.5.

1. An external organisation acting for AF in accreditation, certification, delegated recognition or scheme operation shall hold prior written permission and an executed binding Cooperation and Authorization MoU with its actual technical and territorial scope.	UNSET
2. Competence evaluation, operating permission and the individual applicant outcome are separate decisions.	UNSET
3. Ordinary applicants and members are not required to enter that operator agreement merely to participate.	UNSET
4. Onward delegation is prohibited unless expressly authorised and technically controlled.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Competence decision; written approval; executed MoU; controlled delegation and scope.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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11.6 — Fees, corrections and withdrawal

Source: AF-AST-STD-001 / FIRST EDITION, p. 23; exact source subclause 11.6.

1. Disclose charges, travel, testing, surveillance, reassessment, cancellation and refund conditions before commitment.	UNSET
2. Permit reasonable correction of administrative omissions without inventing earlier technical evidence.	UNSET
3. Application withdrawal shall preserve material findings, confidentiality and safety duties.	UNSET
4. A fee dispute shall follow its fair administrative process and shall not be misclassified as technical incompetence.	UNSET
5. No payment, refund, renewal booking or withdrawal may alter the historical decision or hide an expired status.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Transparent terms; correction/withdrawal history; financial separation; preserved findings.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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12 — Assessment planning, coverage and resources

12.1 — Planning from scope and consequence

Source: AF-AST-STD-001 / FIRST EDITION, p. 23; exact source subclause 12.1.

1. The plan shall begin with the requested object and requirement set, not a fixed commercial duration.	UNSET
2. Identify legal entities, technical methods, actual performers, sites, shifts, programme delivery modes, configurations, prior findings, changes and critical interfaces.	UNSET
3. Select representative routine and adverse work and assign specialists for every material domain.	UNSET
4. Define what evidence can support each conclusion and where sampling cannot establish the full claim.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Approved scope-led plan; coverage matrix; technical assignments; sample rationale.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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12.2 — Sites and stations

Source: AF-AST-STD-001 / FIRST EDITION, p. 23; exact source subclause 12.2.

1. For initial and renewal operational-capability or CAB scopes, establish direct evidence at every included operating site, station or delivery location.	UNSET
2. Common governance evidence can be shared but local capability shall be demonstrated.	UNSET
3. Use physical visits where necessary work cannot be validly observed remotely.	UNSET
4. Surveillance sampling of genuinely homogeneous low-consequence activities requires an approved profile, justified eligibility, rotation and expansion triggers; no generic headquarters sample grants all stations.	UNSET
5. AF 9100 organisational cases retain the specific site rules of that standard.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Site-by-activity coverage; remote/on-site rationale; rotation and ineligible-site controls.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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12.3 — Method-family witnessing

Source: AF-AST-STD-001 / FIRST EDITION, p. 23; exact source subclause 12.3.

1. Group methods only when common principles, equipment, competence, ranges and failure mechanisms justify representativeness.	UNSET
2. Witness each distinct method or capability family, including material extremes and high-consequence tasks.	UNSET
3. A single demonstration shall not cover unrelated techniques merely because one employee performs them.	UNSET
4. Include the whole relevant task from preparation and identity through data interpretation and reporting.	UNSET
5. Map any unobserved part to valid supplementary evidence or exclude it from the granted scope.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Witnessing plan; family grouping rationale; observed limits; supplementary evidence.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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12.4 — Time and productive work

Source: AF-AST-STD-001 / FIRST EDITION, p. 24; exact source subclause 12.4.

1. Use an activity-based work breakdown for non-organisational assessments, with necessary preparation, observation, data review, sites, shifts and rework.	UNSET
2. One evaluator-day is eight productive evaluation hours.	UNSET
3. Travel, breaks, sales, report preparation, translation delay and independent review/decision are separate resources.	UNSET
4. Do not count a trainee as a fully productive assessor or double-count two observers performing the same task without distinct technical work.	UNSET
5. AF 9100 organisational time remains governed by its Annex AC.	UNSET
6. Annex F provides a planning method and examples, not universal technical durations.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Task/time matrix; separate resources; actual productive time; approved additions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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12.5 — Multifamily coordination

Source: AF-AST-STD-001 / FIRST EDITION, p. 24; exact source subclause 12.5.

1. Coordinate visits and common evidence requests when the same applicant uses several families.	UNSET
2. Preserve each profile, specialist, finding impact, review and outcome.	UNSET
3. Record which shared control was evaluated, for what scope and by whom.	UNSET
4. Calculate any efficiency from demonstrably shared work rather than an arbitrary bundled discount on necessary technical observation.	UNSET
5. A finding in a common control shall trigger review of every dependent outcome, with restrictions limited only where unaffected scope is independently established.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Integrated schedule; shared-work allocation; separate conclusions; cross-scope finding impact.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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12.6 — Plan approval and changes

Source: AF-AST-STD-001 / FIRST EDITION, p. 24; exact source subclause 12.6.

1. The lead and competent technical reviewer shall accept the plan before execution.	UNSET
2. Inform the applicant of scope, access, timing, witnesses and safety arrangements without allowing selective favourable evidence.	UNSET
3. Changes during work shall retain the original plan, reason, impact and approved replacement.	UNSET
4. Where capability, access or time is inadequate, add work, restrict the request or defer the conclusion.	UNSET
5. A report shall disclose actual coverage rather than reproduce the planned coverage as though it occurred.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Plan approval; applicant notice; deviations; completed-versus-planned coverage.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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13 — Assessment execution and evidence evaluation

13.1 — Opening, safety and access confirmation

Source: AF-AST-STD-001 / FIRST EDITION, p. 24; exact source subclause 13.1.

1. At opening, confirm scope, participants, independence, permissions, safety constraints, confidentiality, technical limits and reporting arrangements.	UNSET
2. The lead shall stop or adapt activities that cannot be performed safely and lawfully.	UNSET
3. Assessment teams observe competence; they do not take operational control of aircraft, hazardous tests or restricted facilities merely by appointment.	UNSET
4. Explain how missing evidence, unexpected findings and confidential concerns will be handled without prejudging the outcome.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Opening record; actual team; access/safety confirmation; agreed escalation route.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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13.2 — Implementation and vertical trails

Source: AF-AST-STD-001 / FIRST EDITION, p. 24; exact source subclause 13.2.

1. Combine document review, interviews, observation and actual results.	UNSET
2. Trace selected outputs backward through requirements, authorisation, resources, performer, method, materials and configuration, then forward through release, change and feedback.	UNSET
3. Include failed tests, rework, interruptions, complaints and previous adverse decisions where relevant.	UNSET
4. Sampling shall be expanded when inconsistencies suggest systemic issues.	UNSET
5. A signed checklist or assurance statement alone is not evidence that the underlying activity occurred.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. End-to-end trails; selected populations; adverse cases; sample expansion and findings.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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13.3 — Witness control

Source: AF-AST-STD-001 / FIRST EDITION, p. 25; exact source subclause 13.3.

1. Record the actual task, date, site, equipment, software, personnel, conditions, method version and acceptance basis.	UNSET
2. Observe essential steps directly where required and prevent coached performance from being misrepresented as routine independent work.	UNSET
3. Controlled simulation is acceptable only where the profile justifies its fidelity and restrictions.	UNSET
4. Live work shall not be made unsafe to create a demonstration.	UNSET
5. A missing essential observation requires supplementary evidence, reassessment or restricted scope, not a presumed pass.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Witness log; essential steps; simulation validity; unobserved-step disposition.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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13.4 — Technical judgement and conflicting evidence

Source: AF-AST-STD-001 / FIRST EDITION, p. 25; exact source subclause 13.4.

1. Evaluate whether the evidence supports the specific conclusion under the known assumptions and limitations.	UNSET
2. Record contradictory results and alternative explanations.	UNSET
3. Resolve technical disagreement through competent independent review, not by seniority or majority preference outside expertise.	UNSET
4. An expert shall identify the boundary of advice and data reviewed.	UNSET
5. Inaccessible essential information, an invalid model or an uncontrolled configuration prevents the dependent positive conclusion even if other performance is strong.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Reasoned technical evaluation; counter-evidence; independent challenge; limitations and holds.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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13.5 — Closing and report

Source: AF-AST-STD-001 / FIRST EDITION, p. 25; exact source subclause 13.5.

1. Communicate evidence-based findings, affected scope, immediate protection and the distinction between team recommendation and final decision.	UNSET
2. Acknowledge factual corrections without erasing valid adverse evidence.	UNSET
3. Issue the final evaluation report within 14 calendar days of evaluation closure; exceptional delay shall be explained without moving an already notified finding clock.	UNSET
4. The report shall state actual time, methods, samples, sites, witnesses, criteria, limitations, findings and recommendation.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Closing record; findings and original notification dates; final actual-coverage report.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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14 — Nonconformity, protection and corrective action

14.1 — Finding formulation and classification

Source: AF-AST-STD-001 / FIRST EDITION, p. 25; exact source subclause 14.1.

1. A finding shall identify the exact requirement and version , objective evidence, gap, affected object/site/period and classification rationale.	UNSET
2. Use critical, major, minor and observation categories as defined in Annex G.	UNSET
3. An observation is not a substitute for a demonstrated failure.	UNSET
4. Several local failures may together establish systemic breakdown.	UNSET
5. Determine technical containment separately from administrative grade so that an immediate hazard is not delayed by debate over wording.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Requirement–evidence–gap record; classification; extent and protective decision.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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14.2 — Immediate protection and notifications

Source: AF-AST-STD-001 / FIRST EDITION, p. 25; exact source subclause 14.2.

1. Upon a credible critical concern, the responsible organisation shall protect people and affected work immediately, preserve evidence and notify required recipients.	UNSET
2. A holder shall notify its operator within 24 hours of awareness; earlier applicable duties remain.	UNSET
3. On a substantiated critical concern, the operator shall suspend the affected status or impose an effective evaluated restriction within 24 hours.	UNSET
4. An independent duty function with a pre-existing mandate may act urgently, followed by prompt independent review.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Awareness and action times; containment; notification/acknowledgement; status decision.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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14.3 — Occurrence, escape and systemic extent

Source: AF-AST-STD-001 / FIRST EDITION, p. 26; exact source subclause 14.3.

1. The organisation shall determine why the problem occurred and why existing controls did not prevent or detect it.	UNSET
2. Identify affected and potentially affected outputs, sites, learners, reports, suppliers and configurations, including those already delivered.	UNSET
3. Test causal explanations with evidence.	UNSET
4. Training, a revised procedure or blaming an operator alone is not sufficient where workflow, capacity, interface, equipment or management conditions contributed.	UNSET
5. Preserve rejected hypotheses and material uncertainty.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Population trace; tested causes; occurrence/escape controls; systemic review.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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14.4 — Plans, closure and effectiveness

Source: AF-AST-STD-001 / FIRST EDITION, p. 26; exact source subclause 14.4.

1. Submit a corrective-action plan within 30 calendar days of finding notification.	UNSET
2. Verify major closure within 60 days and minor closure within 90 days, while immediate protection remains separate.	UNSET
3. Define effectiveness criteria and observation exposure before closing.	UNSET
4. Review changes for unintended effects.	UNSET
5. A new finding number, changed owner, amended report or rescheduled plan shall not restart the original clock.	UNSET
6. Missed deadlines trigger the affected status action in Annex H, not an automatic extension.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Accepted plan; original due dates; implementation and effectiveness evidence; verified closure.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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14.5 — Existing status and new grants

Source: AF-AST-STD-001 / FIRST EDITION, p. 26; exact source subclause 14.5.

1. Initial grants, renewals and extensions require closure of every in-scope nonconformity.	UNSET
2. An existing status may continue with a local minor only after adequate protection, reviewed cause and extent, accepted plan and a reasoned independent conclusion that essential controls remain intact.	UNSET
3. A major compromising ongoing conformity requires suspension, unless an independently demonstrated unaffected scope can be restricted.	UNSET
4. A future promise of correction is not present competence.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Independent continuation/restriction rationale; closed findings for grant; current protection.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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14.6 — Recurrence and invalid prior decisions

Source: AF-AST-STD-001 / FIRST EDITION, p. 26; exact source subclause 14.6.

1. Recurrent failure or ineffective action shall reopen the causal and extent review and may require wider suspension, re-evaluation of personnel or version of methods.	UNSET
2. If prior reports or decisions relied on invalid evidence, identify recipients and correct their status and conclusions proportionately.	UNSET
3. Record what was known at each actual date.	UNSET
4. Later good evidence shall not be backdated to make an unsupported earlier approval appear valid.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Reopened analysis; affected historical decisions; communication; truthful status history.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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15 — Independent review and final decisions

15.1 — Review dossier

Source: AF-AST-STD-001 / FIRST EDITION, p. 26; exact source subclause 15.1.

1. The independent reviewer shall examine the exact scope and profile, lawful authority, assessor competence, conflicts, coverage, method validity, evidence, uncertainty, findings, corrections, limitations and proposed claim.	UNSET
2. All essential records shall be accessible through authorised means.	UNSET
3. Return incomplete or inconsistent files for correction rather than infer missing results.	UNSET
4. Evidence reuse shall remain traceable to its original scope and limitations.	UNSET
5. The reviewed dossier shall be versioned so that the decision can later be reconstructed.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Independent review checklist; versioned dossier; unresolved issues and returned files.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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15.2 — Positive-decision gate

Source: AF-AST-STD-001 / FIRST EDITION, p. 27; exact source subclause 15.2.

1. A positive grant, renewal or extension requires valid scope, all applicable criteria fulfilled, adequate evidence, closed in-scope nonconformities, sufficient independent competence and actual authority.	UNSET
2. Required operating and mark permissions shall be effective before the associated claim is used.	UNSET
3. This is a conjunction of conditions, not a weighted score.	UNSET
4. A genuinely bounded unaffected scope may be granted only after independent evaluation; it shall not conceal a systemic deficiency or imply success in the refused scope.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Completed gate; exact granted/refused boundary; authority and permission checks.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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15.3 — Panel and dissent

Source: AF-AST-STD-001 / FIRST EDITION, p. 27; exact source subclause 15.3.

1. Apply the three-member accreditation panel rule in Clause 3.4.	UNSET
2. Members shall receive adequate records and competent technical support and shall not delegate votes.	UNSET
3. Record attendance, conflicts, affirmative/adverse votes, abstentions, reasons and technical dissent.	UNSET
4. A two-to-one outcome is possible only when every mandatory gate is substantiated; unresolved essential technical uncertainty requires hold or further work.	UNSET
5. The chair has no casting vote that can replace absent technical evidence or an ineligible member.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Panel record; all-member participation; technical dissent resolution; actual decision.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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15.4 — Permitted outcomes and conditions

Source: AF-AST-STD-001 / FIRST EDITION, p. 27; exact source subclause 15.4.

1. Decisions may grant, refuse, maintain, restrict, suspend, restore, renew, extend, correct or withdraw a stated result.	UNSET
2. Conditions attached to a valid outcome shall define its actual operating boundary and continuing obligations, not postpone unmet mandatory criteria.	UNSET
3. Pre-assessment, applicant and pilot status are not provisional conformity certificates.	UNSET
4. A lawful product concession remains an explicitly bounded technical disposition and does not waive the requirements for an ASTRA attestation.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Reasoned outcome; bounded conditions; applicant notice; separated concession record.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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15.5 — Decision date and communication

Source: AF-AST-STD-001 / FIRST EDITION, p. 27; exact source subclause 15.5.

1. Record the actual decision date, issue date, effectivity, expiry or instance boundary, criteria version, responsible issuer and signatory.	UNSET
2. Notify the applicant of reasons, scope, continuing duties and remedy route.	UNSET
3. Public status shall match the decision and be updated within two calendar days of a status change, while urgent holder notice is immediate.	UNSET
4. An invoice date, ceremonial date, signature-image insertion or document reprint shall not become a fictitious conformity date.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Authenticated decision; notice; issue/expiry fields; timely registry instruction.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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16 — Surveillance, renewal and status control

16.1 — Duration and basis

Source: AF-AST-STD-001 / FIRST EDITION, p. 27; exact source subclause 16.1.

1. Ongoing ASTRA recognition, qualification, certification or CAB accreditation under this common framework shall have a maximum 24-month period from the independent conformity decision, subject to a shorter profile interval and continued fulfilment.	UNSET
2. AF 9100 cases retain their controlling provisions.	UNSET
3. An instance result identifies its lot, serial, event, test or historical statement and does not acquire a universal two-year technical validity.	UNSET
4. Credential duration never extends an equipment life limit, calibration, statutory authorisation or qualified process window.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Ongoing/instance classification; exact dates; linked technical limits.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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16.2 — Surveillance frequency and coverage

Source: AF-AST-STD-001 / FIRST EDITION, p. 28; exact source subclause 16.2.

1. Complete ongoing surveillance at intervals no greater than 12 months, reduced to six months for high-consequence, materially novel or significant competence/integrity exposure.	UNSET
2. Apply the AF 9100 C0–C3 rules when that standard is used.	UNSET
3. Mixed scopes follow the shortest triggered interval unless genuinely separated.	UNSET
4. Reassess actual operation, technical witnessing, changes, adverse results and controls; a document check or booked visit alone is not completed surveillance.	UNSET
5. Missing required completion triggers affected suspension.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Risk-based timetable; completed technical coverage; changed-scope review; overdue action.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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16.3 — Material change and notification

Source: AF-AST-STD-001 / FIRST EDITION, p. 28; exact source subclause 16.3.

1. Planned changes shall be notified early enough for required prior review and before using an expanded claim.	UNSET
2. Unplanned non-critical material changes shall be notified within five calendar days after awareness; critical concerns follow the 24-hour rule.	UNSET
3. Evaluate ownership, responsible entity, location, methods, key personnel, digital platforms, aircraft/task capability, educational delivery and environmental boundaries.	UNSET
4. An unchanged commercial name shall not conceal a different technical basis.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Change notification; impact; prior approval; updated scope and evidence.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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16.4 — Renewal and interruption

Source: AF-AST-STD-001 / FIRST EDITION, p. 28; exact source subclause 16.4.

1. Plan renewal sufficiently early to complete evaluation, closure, independent review and decision before expiry; initiation at least 90 days beforehand is recommended, not a guarantee.	UNSET
2. If the renewal decision occurs after expiry, a visible gap remains and the new status starts no earlier than the actual decision.	UNSET
3. Relevant prior work may inform the review but not substitute for current demonstrated capability.	UNSET
4. No payment or appeal automatically extends validity.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Renewal plan; current evidence; closed findings; actual dates and disclosed gap.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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16.5 — Suspension, restoration and withdrawal

Source: AF-AST-STD-001 / FIRST EDITION, p. 28; exact source subclause 16.5.

1. A suspension shall state scope, reason, prohibited claims, required actions and a resolution deadline no later than 90 days from the decision.	UNSET
2. Restore only after verified correction, affected-output review and a valid current basis; otherwise restrict to independently unaffected scope or withdraw.	UNSET
3. Repeated administrative resets are prohibited.	UNSET
4. Restoration without full renewal preserves the original expiry and does not validate the suspended interval.	UNSET
5. Technical containment and reporting continue independently of certificate administration.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Status notices; verified restoration; unaffected-scope rationale; historical continuity.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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16.6 — Transfer and cessation

Source: AF-AST-STD-001 / FIRST EDITION, p. 28; exact source subclause 16.6.

1. A receiving operator shall verify authenticity, scope, criteria, decision history, findings, surveillance, authority and technical evidence before accepting a transfer, and perform additional evaluation where necessary.	UNSET
2. Suspended or unsupported status cannot be made valid by changing issuer.	UNSET
3. Operator cessation shall preserve records, pending remedies, current status, holder communication and lawful access.	UNSET
4. Transfer of files does not itself transfer accreditation, AF operating authority or a wider technical scope.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Transfer review; additional work; continuity agreement; accurate issuer/status history.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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17 — F01 — Management Systems Assurance

17.1 — System profiles

Source: AF-AST-STD-001 / FIRST EDITION, p. 29; exact source subclause 17.1.

1. The applicant shall identify design and production, maintenance, distribution or other released organisational profiles, together with the actual activities and retained responsibilities.	UNSET
2. Where AF 9100:2026 conformity is claimed, its complete applicable core, technical modules and normative annexes shall be assessed.	UNSET
3. Existing good controls may be reused when they fulfil the actual requirement.	UNSET
4. An alternative system document or ASTRA participation alone shall not be represented as AF 9100 conformity.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Organisational profile; AF 9100 applicability where claimed; implementation evidence.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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17.2 — Readiness and implementation

Source: AF-AST-STD-001 / FIRST EDITION, p. 29; exact source subclause 17.2.

1. Before initial independent organisational assessment, complete an internal audit of the applicable scope and management review, with adequate actual operating records.	UNSET
2. Readiness examines the definition and functioning of the system; implementation evaluation tests its processes and outputs.	UNSET
3. There is no invented mandatory history of backdated records.	UNSET
4. A new organisation may proceed when sufficient authentic evidence exists, but a plan to operate is not evidence of completed operation.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Internal audit; management review; actual readiness and implementation trails.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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17.3 — Design, production and distribution interfaces

Source: AF-AST-STD-001 / FIRST EDITION, p. 29; exact source subclause 17.3.

1. A build-to-print scope shall identify the actual design authority, supplied-data control, manufacturing-process design and escalation of errors.	UNSET
2. A distribution scope shall demonstrate authenticity, storage, life status, split-lot traceability and required customer evidence.	UNSET
3. A production scope shall demonstrate controlled configuration, source qualification, critical characteristics and authorised release.	UNSET
4. Excluding own product design shall not remove controls over errors, changes or outsourced design responsibilities retained by contract.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Activity-specific trails; authority boundaries; source and configuration evidence.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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17.4 — Independent organisational outcome

Source: AF-AST-STD-001 / FIRST EDITION, p. 29; exact source subclause 17.4.

1. The assessor shall test both vertical product/service trails and systemic governance, including resources, competence, changes, feedback and corrective effectiveness.	UNSET
2. Use the applicable organisational time and site minima.	UNSET
3. The independent conclusion shall identify entity, sites, profile and system boundary.	UNSET
4. It shall not imply approval of every delivered product, laboratory method, maintenance task, employee or service station.	UNSET
5. Any technical capability claim requires its own relevant family evidence and decision.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. System evaluation; time/site evidence; independent ORG result; separate technical scopes.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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18 — F02 — Critical Processes and Products

18.1 — Process or product object

Source: AF-AST-STD-001 / FIRST EDITION, p. 30; exact source subclause 18.1.

1. The application shall distinguish a qualified process from a conforming product configuration, family, lot or serial.	UNSET
2. A process scope shall identify site, equipment, material/geometry range, essential variables and outputs.	UNSET
3. A product scope shall identify technical requirements, intended use, configuration, production basis, acceptance and support.	UNSET
4. Combined evaluation is permissible only with separate criteria and conclusions.	UNSET
5. A machine approval shall not become approval of every process run or product made using it.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Process/product scope; technical profile; distinct decision boundary.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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18.2 — Qualification plan

Source: AF-AST-STD-001 / FIRST EDITION, p. 30; exact source subclause 18.2.

1. Before unrestricted use, demonstrate the proposed process under representative conditions and justified extremes.	UNSET
2. The plan shall identify material sources, geometry, equipment, personnel, software, environment, repetitions, measurements and acceptance criteria.	UNSET
3. Retain failed and excluded runs and their technical disposition.	UNSET
4. Qualification by similarity shall identify differences, mechanisms and why retained evidence bounds them.	UNSET
5. A generic supplier capability declaration or a single favourable prototype shall not replace a technically complete qualification.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Qualification matrix; representative trials; failed-run history; approved process window.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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18.3 — Essential variables and point-of-use control

Source: AF-AST-STD-001 / FIRST EDITION, p. 30; exact source subclause 18.3.

1. Identify variables and combinations capable of affecting hidden or critical properties, including preparation and post-processing.	UNSET
2. Define authorised ranges, monitoring, alarms, hold points, personnel and reaction plans.	UNSET
3. Record actual variables against each run and output identity.	UNSET
4. A requirement to maintain an approved window shall not be replaced by an average result that hides an excursion.	UNSET
5. Critical software recipes, machine programmes and tooling shall have controlled identity and change approval.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Essential-variable register; controlled instructions; run records; excursion detection.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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18.4 — Materials, genealogy and authenticity

Source: AF-AST-STD-001 / FIRST EDITION, p. 30; exact source subclause 18.4.

1. Demonstrate traceability of material, feedstock, consumables and components to actual products and process runs.	UNSET
2. Control mixing, splitting, blending, reuse, condition, shelf/out-time and source changes.	UNSET
3. Validate digital genealogy and reconcile quantities.	UNSET
4. A certificate of origin is not proof of every required material property.	UNSET
5. Suspect or counterfeit input shall be isolated, investigated and traced through affected output before a conformity claim is maintained.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Material genealogy; quantity balance; input suitability; suspect-output trace.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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18.5 — First article and production readiness

Source: AF-AST-STD-001 / FIRST EDITION, p. 30; exact source subclause 18.5.

1. Account for all applicable characteristics of a production-representative article using actual results, current data, material evidence, qualified processes and controlled software.	UNSET
2. A partial first article requires a justified changed/unchanged characteristic analysis.	UNSET
3. Production readiness shall additionally address resources, measurement capability, operators, suppliers, process stability and unresolved risks.	UNSET
4. One conforming article shall not replace ongoing controls or establish capability for untested variants.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Characteristic accountability; actual route; partial/full rationale; readiness decision.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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18.6 — Capability and monitoring

Source: AF-AST-STD-001 / FIRST EDITION, p. 31; exact source subclause 18.6.

1. Distinguish process stability, statistical capability and individual-output acceptance.	UNSET
2. Statistical indices require suitable data, subgrouping, measurement capability and a justified model.	UNSET
3. Do not pool incompatible configurations to improve an index or recalculate limits merely to conceal a drift.	UNSET
4. For low-volume or one-off work, use a technically justified combination of qualification and individual verification rather than an unsupported capability claim.	UNSET
5. The profile shall define the actual criteria, not a universal index threshold.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Study design; model/stability review; monitoring; justified low-volume alternative.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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18.7 — Excursion, change and requalification

Source: AF-AST-STD-001 / FIRST EDITION, p. 31; exact source subclause 18.7.

1. After an excursion, identify the potentially affected interval and outputs from the last valid state.	UNSET
2. Additional inspection is acceptable only when capable of detecting the effect; a superficial pass cannot erase an inherently hidden defect mechanism.	UNSET
3. Changes to site, material, geometry, equipment, software, personnel or post-processing shall trigger requalification review.	UNSET
4. Receiving capability shall be demonstrated before transfer.	UNSET
5. Release restrictions remain until the required evidence and approvals are restored.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Affected population; technical disposition; change impact; full/partial requalification.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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18.8 — Product release and continuing claim

Source: AF-AST-STD-001 / FIRST EDITION, p. 31; exact source subclause 18.8.

1. Product release shall use the agreed technical criteria and instance evidence independently of the organisation's system status.	UNSET
2. An ongoing family claim requires controlled production, surveillance, change notification and field feedback.	UNSET
3. A one-time test shall not authorise indefinite output.	UNSET
4. Labels shall state the exact scope and required restrictions.	UNSET
5. Safety or mission claims, including suitability for space or defense applications, require the corresponding application-specific evidence and approvals.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Unit/lot acceptance; family surveillance; approved labels; in-service feedback and limitations.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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19 — F03 — Laboratory, calibration and inspection competence

19.1 — Detailed technical scope

Source: AF-AST-STD-001 / FIRST EDITION, p. 31; exact source subclause 19.1.

1. The laboratory or inspection body shall define method families, materials/items, measured properties, ranges, conditions, sites, mobile activities and limitations.	UNSET
2. Calibration scopes shall state measurement quantities and demonstrated uncertainty capability.	UNSET
3. Inspection scopes shall state object, stage, criteria and independence relationship.	UNSET
4. An unrestricted description such as all aerospace tests is insufficient.	UNSET
5. Flexible scope shall be bounded prospectively and shall not authorise a new measurement principle, site or technical field without competence review.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Method/range/site schedule; relationship declaration; controlled flexibility limits.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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19.2 — Responsible technical management

Source: AF-AST-STD-001 / FIRST EDITION, p. 31; exact source subclause 19.2.

1. Appoint technical managers and authorised signatories with demonstrated competence for their actual methods and conclusions.	UNSET
2. Record who approves methods, performs work, interprets results, releases reports and evaluates complaints.	UNSET
3. Shared staff shall have manageable workloads and substitution arrangements.	UNSET
4. Independence required by the claimed result shall be demonstrated structurally and in practice.	UNSET
5. Laboratory staff shall be able to stop work and refuse an unsupported result without commercial retaliation.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Technical appointments; signatory scope; workload/deputies; stop-work authority.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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19.3 — Method performance and detection

Source: AF-AST-STD-001 / FIRST EDITION, p. 32; exact source subclause 19.3.

1. Demonstrate method suitability for relevant defect mechanisms or measurands, specimen preparation, surfaces, geometry, matrix effects, interference, access and environmental conditions.	UNSET
2. For qualitative inspection, evaluate false-positive and false-negative behaviour where material.	UNSET
3. Detection capability shall be tied to technique, task, equipment and person.	UNSET
4. A successful reference check on an easy artefact shall not prove the ability to detect every relevant defect in an installed structure.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Method validation; challenge specimens; detection limitations; authorised interpretation.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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19.4 — NDT-specific competence

Source: AF-AST-STD-001 / FIRST EDITION, p. 32; exact source subclause 19.4.

1. NDT work shall identify technique, material/product sector, equipment, procedure and acceptance basis, with qualified task personnel and technical supervision.	UNSET
2. Establish training, experience, practical demonstrations, vision or physical requirements only where justified by the task, periodic re-examination and employer authorisation.	UNSET
3. Industrial qualification shall not be equated with a general personnel badge.	UNSET
4. Hazardous-source use requires separate lawful authorisation and safe operating arrangements; this standard supplies no source-handling or exposure instructions.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. NDT role/technique matrix; practical evidence; employer authority; controlled safety permissions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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19.5 — Materials and destructive testing

Source: AF-AST-STD-001 / FIRST EDITION, p. 32; exact source subclause 19.5.

1. Control sampling location, specimen geometry, orientation, machining/preparation, conditioning and traceability to parent material.	UNSET
2. Demonstrate relevant apparatus performance, rate/control conditions, data acquisition and result processing.	UNSET
3. Record invalid tests, fractures or anomalies and the reason for any retest.	UNSET
4. Chemical and physical methods shall address relevant contamination, blank, recovery, reference-material and calibration effects.	UNSET
5. A result shall be limited to the actual specimen and justified population inference.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Specimen-parent links; conditions; raw data; validity and retest disposition.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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19.6 — Calibration and reference capability

Source: AF-AST-STD-001 / FIRST EDITION, p. 32; exact source subclause 19.6.

1. Calibration shall report the actual quantity, range, method, conditions, result, corrections and uncertainty with suitable traceability.	UNSET
2. Scope capability shall be supported by a technically complete uncertainty budget and demonstrated implementation.	UNSET
3. Where an external calibration supports another method, verify that its uncertainty and range are sufficient for the intended use.	UNSET
4. A scope schedule shall not advertise a smaller uncertainty than the body can actually achieve under the stated conditions.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Calibration scope; uncertainty evidence; reference chain; demonstrated capability.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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19.7 — Sampling and customer-supplied items

Source: AF-AST-STD-001 / FIRST EDITION, p. 32; exact source subclause 19.7.

1. Contract review shall establish who sampled the item and which population is represented.	UNSET
2. At receipt, verify identity, condition, deviations, quantity and requested work.	UNSET
3. Resolve unsuitable or ambiguous items before work; where proceeding is justified, state limitations in the result.	UNSET
4. Maintain storage, preparation, transport, consumption and disposal records.	UNSET
5. A customer's unverified description shall be clearly identified rather than silently adopted as a laboratory observation.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Receipt and custody; sampling responsibility; deviations; report limitations.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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19.8 — Inspection relationships

Source: AF-AST-STD-001 / FIRST EDITION, p. 32; exact source subclause 19.8.

1. Identify whether inspection is independent third-party activity or is performed within a declared ownership, design, production or service relationship.	UNSET
2. Assess the risks and required separation for the actual claim; do not imply third-party independence when it is absent.	UNSET
3. Separate inspected-work responsibility from inspection judgement sufficiently to meet the agreed independence requirement.	UNSET
4. Internal inspection may support technical evidence, but it shall not be relabelled as an independent certification of that work.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Relationship analysis; independence controls; accurately worded report and scope.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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19.9 — Inspection judgement and remote methods

Source: AF-AST-STD-001 / FIRST EDITION, p. 33; exact source subclause 19.9.

1. Inspection procedures shall specify acceptance criteria, technique, access, sampling, instruments, records and the competence needed for judgement.	UNSET
2. Record inaccessible features and limitations of visual, remote or automated methods.	UNSET
3. Drone imagery, digital scans and AI classification shall be validated for their intended inspection purpose.	UNSET
4. Absence of an observed defect does not demonstrate absence of a defect outside the method's detection or access capability.	UNSET
5. Escalate uncertain classifications before release.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Inspection plan; method validity; access/detection limits; reviewed judgement.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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19.10 — Comparisons and validity programme

Source: AF-AST-STD-001 / FIRST EDITION, p. 33; exact source subclause 19.10.

1. For each significant technical field, define risk-based reference checks, blind or duplicate work, comparison participation and other validity controls.	UNSET
2. Before granting a new scope, examine available satisfactory comparison evidence or an independently accepted alternative that directly challenges the claimed ability.	UNSET
3. No arbitrary score shall compensate for unresolved poor performance.	UNSET
4. Record investigation, affected historical work and successful corrective verification.	UNSET
5. Programme enrolment alone shall not be counted as a satisfactory result.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Validity coverage map; comparison/alternative results; investigations; restored capability.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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19.11 — Nonconforming laboratory or inspection work

Source: AF-AST-STD-001 / FIRST EDITION, p. 33; exact source subclause 19.11.

1. A designated person shall evaluate the significance of nonconforming work, stop or restrict it, assess prior results, notify affected clients where necessary and authorise resumption only after correction is demonstrated.	UNSET
2. The response shall address method, equipment, personnel, environment and data mechanisms.	UNSET
3. A corrected report shall identify what changed and why.	UNSET
4. Do not erase an adverse report merely because a new sample gives a better result.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Nonconforming-work record; prior-report assessment; amended reports; resumption authority.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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19.12 — Technical witnessing for accreditation

Source: AF-AST-STD-001 / FIRST EDITION, p. 33; exact source subclause 19.12.

1. The accrediting team shall witness representative activities for every distinct method family or inspection capability and examine a complete application-to-report trail.	UNSET
2. Include adverse work, authorised sign-off, uncertainty, outsourced results and subsequent controls.	UNSET
3. Similar-method grouping requires a written technical rationale.	UNSET
4. An organisational audit with no relevant technical observation is not a completed laboratory or inspection competence evaluation.	UNSET
5. The final scope shall match the actual demonstrated capability, locations and limitations.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Witness coverage; complete case trail; independent scope review; accreditation decision.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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20 — F04 — Education programmes and demonstrated learning

20.1 — Programme identity and lawful standing

Source: AF-AST-STD-001 / FIRST EDITION, p. 33; exact source subclause 20.1.

1. Record the provider, programme and award names, discipline, entry route, qualification level, language, mode, campuses, partner delivery and authority to offer the stated award.	UNSET
2. The programme name shall match learner records and public information.	UNSET
3. A recognised programme does not make every programme of the institution recognised and does not licence its graduates.	UNSET
4. Short courses, vocational pathways, degrees and professional development shall not use the same undisclosed evaluation boundary.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Programme/award identity; delivery map; legal standing; consistent public information.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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20.2 — Educational purpose and stakeholder need

Source: AF-AST-STD-001 / FIRST EDITION, p. 34; exact source subclause 20.2.

1. Define the intended professional or further-learning purpose and the capabilities expected at completion, in terms appropriate to the discipline and level.	UNSET
2. Review relevance with learners, educators, employers, professional practitioners and other affected groups without surrendering academic judgement to a single sponsor.	UNSET
3. Distinguish longer-term graduate aims from assessable completion outcomes.	UNSET
4. Keep the rationale and changes traceable to evidence rather than marketing language.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Educational-purpose statement; stakeholder review; outcome rationale; controlled versions .

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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20.3 — Learning outcomes and curriculum alignment

Source: AF-AST-STD-001 / FIRST EDITION, p. 34; exact source subclause 20.3.

1. Map each required learning outcome to learning activities, prerequisites, assessment opportunities, direct evidence and an accountable academic owner.	UNSET
2. Annex J provides adaptable evidence dimensions rather than a universal prescribed curriculum.	UNSET
3. The approved discipline profile shall define the actual knowledge, design, analysis, experimentation, digital, ethical and practical depth and its workload basis.	UNSET
4. Credits, contact hours or attendance alone shall not establish outcome attainment.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Outcome–curriculum–assessment map; level/workload rationale; direct assessment evidence.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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20.4 — Admissions, progression and completion

Source: AF-AST-STD-001 / FIRST EDITION, p. 34; exact source subclause 20.4.

1. Use transparent entry requirements, recognition of prior learning, transfer-credit review, academic advice and progression decisions.	UNSET
2. Demonstrate that every completion route meets the programme's published outcomes and award requirements, including partner and distance routes.	UNSET
3. Record exceptions and their academically authorised basis.	UNSET
4. Sample authentic learner work and completion records across relevant routes; do not infer all graduates' attainment from one showcase project or selected top-performing learner.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Admission/credit decisions; progression; completion checks; representative learner sample.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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20.5 — Assessment validity and academic integrity

Source: AF-AST-STD-001 / FIRST EDITION, p. 34; exact source subclause 20.5.

1. Assessment methods shall test the intended knowledge and practical skills at the required level.	UNSET
2. Set rubrics, essential steps, identity and authenticity checks, moderation and resit rules before use.	UNSET
3. Preserve failed attempts and due process.	UNSET
4. AI-assisted and remote assessments shall demonstrate that the learner, rather than an unverified tool or substitute person, possesses the competence.	UNSET
5. Reasonable adjustments shall preserve the construct being assessed and protect personal information.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Assessment design; moderation; authentic work; essential-step results; integrity/remedy records.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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20.6 — Educators and technical supervision

Source: AF-AST-STD-001 / FIRST EDITION, p. 34; exact source subclause 20.6.

1. Demonstrate that academic and practical staff have suitable disciplinary knowledge, teaching and assessment competence, recent professional development and adequate time.	UNSET
2. Technical tasks require supervision appropriate to consequence and learner experience.	UNSET
3. Visiting staff and placement supervisors shall have defined responsibility and observed performance.	UNSET
4. Faculty titles alone do not establish competence in every specialist module.	UNSET
5. The programme shall maintain continuity when a key instructor or assessor leaves.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Staff competence/workload; supervision; external-teacher controls; continuity plan.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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20.7 — Learning resources and safe practical work

Source: AF-AST-STD-001 / FIRST EDITION, p. 34; exact source subclause 20.7.

1. Provide facilities, equipment, software, library/information access and learner support adequate for all delivery locations and modes.	UNSET
2. Practical activities shall have safe methods, competent supervision and verified apparatus.	UNSET
3. Simulation or remote laboratories may support learning where educational equivalence is demonstrated, but shall not replace essential hands-on outcomes without a valid profile basis.	UNSET
4. Learners shall receive accessible guidance, feedback and a fair complaints route.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Resource sufficiency; practical safety; simulation validity; learner support and access.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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20.8 — Attainment, improvement and closure of the loop

Source: AF-AST-STD-001 / FIRST EDITION, p. 35; exact source subclause 20.8.

1. Evaluate attainment using relevant direct and indirect evidence, defined populations, rubrics and denominators.	UNSET
2. Examine weak outcomes, completion barriers, subgroup or delivery-mode differences and feedback.	UNSET
3. Assign improvement actions, implement them and demonstrate their effect on subsequent representative work.	UNSET
4. A meeting, survey or action list alone is not a completed improvement loop.	UNSET
5. Do not average a failed essential practical outcome into an overall pass.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Attainment analysis; improvement decision; implemented action; follow-up evidence.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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20.9 — Initial operating evidence and readiness only

Source: AF-AST-STD-001 / FIRST EDITION, p. 35; exact source subclause 20.9.

1. A full programme outcome shall be based on authentic completed delivery and assessment evidence, normally at least one complete cohort for the claimed completion route, sufficient to evaluate all applicable outcomes.	UNSET
2. Where this evidence does not yet exist, the operator may issue only a clearly bounded developmental readiness report, with no live recognition or accreditation claim.	UNSET
3. The profile shall define suitable evidence for individualised or very low-volume programmes without inventing graduates or records.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Completed delivery evidence; cohort/route coverage; readiness limitations; honest public status.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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20.10 — Change, teach-out and continuing learner protection

Source: AF-AST-STD-001 / FIRST EDITION, p. 35; exact source subclause 20.10.

1. Review changes to curriculum, award level, campuses, online platforms, partners and major staff/resources before extending the recognised scope.	UNSET
2. Continuing oversight shall address actual outcomes and learners, not only unchanged syllabi.	UNSET
3. Closure or loss of programme status requires clear communication, record preservation, transfer or teach-out arrangements and accurate historical status.	UNSET
4. Do not retroactively remove a learner's authentic academic work or imply a professional licence from the programme result.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Change approval; continuing outcome review; teach-out/transfer; historical records.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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21 — F05 — Airports, aerodromes and operational interfaces

21.1 — Aerodrome scope and operating basis

Source: AF-AST-STD-001 / FIRST EDITION, p. 35; exact source subclause 21.1.

1. Record the legal operator, airport or aerodrome, boundaries, runways, terminals, operating characteristics, permissions, shared responsibilities and outsourced services.	UNSET
2. Establish the actual infrastructure and operational basis with controlled limitations and current information.	UNSET
3. Group-level governance shall not replace site capability.	UNSET
4. Heliports, vertiports, spaceports and mixed civil/military interfaces need dedicated supplements and competent authority review before an ASTRA claim includes them.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Aerodrome scope; permissions; infrastructure/operating baseline; separately gated supplements.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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21.2 — Safety management and change

Source: AF-AST-STD-001 / FIRST EDITION, p. 35; exact source subclause 21.2.

1. Identify airport hazards, operational changes, occurrences and interfaces using a functioning safety process with accountable decisions and follow-through.	UNSET
2. Include construction, new aircraft or equipment, traffic patterns, staff changes, temporary works, contractors and abnormal weather.	UNSET
3. Assess cumulative and interface effects before use.	UNSET
4. Staff and providers shall have an accessible reporting and stop/escalation route.	UNSET
5. Absence of reported incidents shall not be treated as proof that risks are controlled.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Safety/change records; occurrence learning; interface risk; verified mitigations.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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21.3 — Airside condition and operational information

Source: AF-AST-STD-001 / FIRST EDITION, p. 36; exact source subclause 21.3.

1. Maintain inspection and defect-management controls for movement areas, pavements, markings, signs, lighting, surface condition, foreign objects, wildlife interfaces and obstacles within responsibility.	UNSET
2. Link inspection results to timely operational information, restrictions, repair and verified restoration.	UNSET
3. Day, night and adverse-condition capability shall be evaluated when included in the scope.	UNSET
4. Technical limits and notification duties belong to the approved airport-specific basis; this core supplies no universal runway dimensions or response thresholds.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Airside inspections; defects/restrictions; notices; restored condition and task coverage.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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21.4 — Emergency readiness and coordinated response

Source: AF-AST-STD-001 / FIRST EDITION, p. 36; exact source subclause 21.4.

1. Maintain a coordinated emergency plan with actual responsible services, communications, access, equipment, competence, exercises and corrective follow-up.	UNSET
2. Evaluate the interfaces for rescue, fire, medical support, disruption, severe weather and continuity within the operator's scope.	UNSET
3. Safe exercises shall demonstrate coordination and known limitations; a signed agreement alone does not prove availability.	UNSET
4. An ASTRA assessor shall not direct live tactical response or assume public emergency authority.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Emergency agreements; availability/competence; exercises; deficiencies and verified action.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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21.5 — Passenger, terminal and baggage services

Source: AF-AST-STD-001 / FIRST EDITION, p. 36; exact source subclause 21.5.

1. Control passenger information, accessibility assistance, flows, baggage interfaces, service recovery, sanitation, public areas and relevant contractor performance.	UNSET
2. Define service measures with time windows, populations and exclusions, while preserving safety priorities.	UNSET
3. Assess delivery during peak and disrupted conditions rather than only quiet periods.	UNSET
4. A terminal contractor's failure shall be evaluated against both its responsibility and the airport's retained interface controls.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Service definition; actual performance; accessibility; contractor interface and recovery evidence.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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21.6 — Security, digital systems and utilities

Source: AF-AST-STD-001 / FIRST EDITION, p. 36; exact source subclause 21.6.

1. Evaluate authorised access governance, supplier interfaces, sensitive information, operational technology, essential utilities, cyber resilience and recovery.	UNSET
2. Verify that critical service changes do not create uncontrolled operational dependencies.	UNSET
3. Protect tactical security information through competent authorised review.	UNSET
4. A cyber or access-system certificate for another scope shall not prove the airport's actual deployment.	UNSET
5. Restored digital availability requires integrity and operational acceptance before dependent use.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Access/utility responsibilities; digital baseline; recovery/integrity tests; authorised review.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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21.7 — Tenants, construction and common interfaces

Source: AF-AST-STD-001 / FIRST EDITION, p. 36; exact source subclause 21.7.

1. Assign responsibilities with handlers, fuel providers, airlines, maintenance organisations, cargo operators, navigation support and construction contractors.	UNSET
2. Shared controls shall state ownership, handovers, notification, monitoring and escalation.	UNSET
3. Track construction handover and temporary restrictions before operational use.	UNSET
4. Each independently claimed provider capability retains its own assessment and scope.	UNSET
5. Annex K supports interface records; a common landlord relationship does not merge technical authorisation or liability.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Interface register; handovers; construction acceptance; independently scoped provider evidence.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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21.8 — Environmental integration and continuing capability

Source: AF-AST-STD-001 / FIRST EDITION, p. 36; exact source subclause 21.8.

1. Meet applicable local environmental controls within the airport capability scope.	UNSET
2. Enhanced carbon inventories, reductions, resilience and supply claims shall use the selected F08 module and its own boundary.	UNSET
3. Maintain surveillance of actual airport functions, material changes, significant incidents and corrective effectiveness.	UNSET
4. Publish only the named aerodrome, responsible operator, evaluated functions and limitations.	UNSET
5. No claim shall imply that all flights using the airport share its environmental outcome.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Environmental interface; F08 statement linkage; site surveillance; accurate scope statement.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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22 — F06 — Aircraft maintenance and technical services

22.1 — Capability list and technical boundaries

Source: AF-AST-STD-001 / FIRST EDITION, p. 37; exact source subclause 22.1.

1. The scope shall identify legal entity, facility or line station, aircraft/engine/APU/component family, maintenance task, limitations and release interfaces.	UNSET
2. Distinguish line, base, engine/APU, component, structures/cabin/modification embodiment, technical asset support and storage/end-of-life work.	UNSET
3. A brand-wide claim shall not replace the actual capability list.	UNSET
4. New capability requires verified data, people, tooling, facilities, parts and acceptance arrangements before work is accepted within the claimed scope.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Facility/type/task matrix; actual permissions; new-capability readiness and limitations.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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22.2 — Current data and maintenance planning

Source: AF-AST-STD-001 / FIRST EDITION, p. 37; exact source subclause 22.2.

1. Use current applicable technical data and actual item configuration, history, life limits and work scope.	UNSET
2. Work packages shall identify task sequence, hold points, inspection independence, resources, customer inputs, repair approvals and completion evidence.	UNSET
3. Resolve ambiguous or missing instructions before dependent work.	UNSET
4. Embodying an approved modification does not confer design approval; engineering advice and continuing-airworthiness support shall be scoped separately from hands-on maintenance.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Current-data verification; work package; design/support interface; resolved instructions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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22.3 — People, fatigue and task authorisation

Source: AF-AST-STD-001 / FIRST EDITION, p. 37; exact source subclause 22.3.

1. Verify competence and actual task authority for certifying staff, technicians, inspectors, planners, contractors and temporary personnel.	UNSET
2. Assess fatigue, workload, supervision, shift transitions, communication, interruptions and repeated error conditions.	UNSET
3. Staff shall recognise tasks outside their authorisation and escalate without production pressure.	UNSET
4. An ASTRA personnel credential is not a statutory maintenance licence or the employer's release authorisation.	UNSET
5. Independent checks shall be genuinely independent of the relevant performed work.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Role/task authorisations; human-factor controls; handovers; independent checks.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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22.4 — Tools, parts and life status

Source: AF-AST-STD-001 / FIRST EDITION, p. 37; exact source subclause 22.4.

1. Control tool availability, calibration, equipment configuration, parts authenticity, eligibility, storage, shelf life and life-limited histories.	UNSET
2. Reconcile removed and installed components and temporary devices.	UNSET
3. Missing life history or an unverified certificate shall trigger a technical hold, not a presumed life reset.	UNSET
4. External test results, NDT and special-process records shall connect to the actual item and task and use the relevant F03/F02 competence evidence.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Tool/part records; life status; remove/install trace; linked technical-method evidence.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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22.5 — Execution, errors and interrupted work

Source: AF-AST-STD-001 / FIRST EDITION, p. 37; exact source subclause 22.5.

1. Capture attributable task completion, measurements, inspection results, deviations and authorised dispositions.	UNSET
2. Mark unfinished work and control handover, access, tool inventory and restoration of protective features.	UNSET
3. After an error or interruption, determine affected tasks and independent verification needs before continuation.	UNSET
4. A signature shall not be added later to make an unobserved task appear contemporaneously completed.	UNSET
5. Rework and repeat tests shall retain the original failure and changed configuration.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Task records; interruption/handover; error disposition; repeat evidence and configuration.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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22.6 — Release and customer handover

Source: AF-AST-STD-001 / FIRST EDITION, p. 38; exact source subclause 22.6.

1. Before release, verify completed requirements, approved repairs/deviations, required independent checks, final configuration, restored protections, life status and remaining limitations.	UNSET
2. The actual authorised person shall issue the appropriate release and customer information within their privileges.	UNSET
3. ASTRA capability recognition shall not be used as a replacement maintenance release.	UNSET
4. Receiving parties shall obtain records necessary for safe continued support, with acknowledgement where required.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Final review; actual release authority; maintenance result; handover and restrictions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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22.7 — Technical asset support and continuity

Source: AF-AST-STD-001 / FIRST EDITION, p. 38; exact source subclause 22.7.

1. Planning, reliability analysis, fleet/lease transitions, records review and aircraft-on-ground support shall state advisory responsibility, data quality, turnaround objectives and escalation.	UNSET
2. Advice affecting safety or configuration shall be technically reviewed and recorded.	UNSET
3. Remote advice shall verify asset identity, conditions and authority.	UNSET
4. A restored support portal or commercially expedited part shall not close missing technical eligibility or life evidence.	UNSET
5. Preserve support records during source or operator changes.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Service profile; reviewed advice; data quality; AOG/transition and continuity records.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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22.8 — Storage, dismantling and end of life

Source: AF-AST-STD-001 / FIRST EDITION, p. 38; exact source subclause 22.8.

1. Define preservation, periodic checks, environmental constraints and return-to-service evidence for stored articles.	UNSET
2. Controlled dismantling shall preserve component identity and determine eligibility from actual history and approved processes, not appearance alone.	UNSET
3. Prevent scrap and restricted items from re-entering service.	UNSET
4. Address hazardous inventories, confidential data, records, material recovery and continuing obligations.	UNSET
5. A successful bench test does not automatically make a removed part serviceable for every installation.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Preservation plan; condition/history; dismantling trace; disposition and record handover.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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23 — F07 — Ground operations and aviation support services

23.1 — Provider, station and service definition

Source: AF-AST-STD-001 / FIRST EDITION, p. 38; exact source subclause 23.1.

1. The applicant shall identify headquarters, legal entities, stations, service tracks, actual tasks, equipment, contracted responsibilities and subcontractors.	UNSET
2. Each included station shall demonstrate local implementation, trained staff, usable instructions, equipment suitability and interface competence.	UNSET
3. Common manuals may be reused only with a verified local-variation record.	UNSET
4. An FBO or digital-platform package shall not conceal the organisations actually performing underlying services.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Provider/station register; task scope; local variations; actual-performer interfaces.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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23.2 — G01 — Handling and turnaround

Source: AF-AST-STD-001 / FIRST EDITION, p. 38; exact source subclause 23.2.

1. For declared passenger, baggage, accessibility, ramp, load-control, aircraft-movement or de-/anti-icing interfaces, define responsibilities, competent roles, equipment compatibility, handovers, hold points and exception reporting.	UNSET
2. Verify representative work safely and include peak, disrupted and shift-change conditions.	UNSET
3. Technical operating limits shall come from current applicable data.	UNSET
4. This programme does not provide pushback, loading or de-icing recipes and does not confer aircrew operational authority.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Turnaround/service plan; training/authorisations; representative records; discrepancies and handovers.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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23.3 — G02 — Cargo, mail and specialist logistics

Source: AF-AST-STD-001 / FIRST EDITION, p. 39; exact source subclause 23.3.

1. Control shipment acceptance, identification, security interfaces, custody, storage, build-up/breakdown, special handling, temperature/time constraints and release.	UNSET
2. Dangerous-goods tasks require verified role competence and actual permissions.	UNSET
3. Monitor custody and environmental excursions through subcontractors and transfers.	UNSET
4. A logistics certification shall not validate unknown contents or authorise a prohibited shipment.	UNSET
5. Corrective action shall identify affected consignments and downstream recipients.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Cargo scope; acceptance/custody; special handling; excursion/recipient trace.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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23.4 — G03 — Fuel and energy services

Source: AF-AST-STD-001 / FIRST EDITION, p. 39; exact source subclause 23.4.

1. Define storage, source verification, quality control, transfer, delivery and aircraft/ground interface responsibilities for each declared fuel or energy service.	UNSET
2. Control contamination, identity, sampling, equipment, staff competence and abnormal conditions through approved technical procedures.	UNSET
3. Record supplied quantity, source and relevant batch or transaction links.	UNSET
4. Emerging fuels, electrical architectures or hydrogen-related services require separate capability and safety supplements; conventional fuel scope does not establish competence for them.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Service/product identity; traceable quality controls; equipment/personnel; separate novel-energy approval.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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23.5 — G04 — Ground equipment and technical facilities

Source: AF-AST-STD-001 / FIRST EDITION, p. 39; exact source subclause 23.5.

1. Define the maintenance and operational support scope for ground equipment, charging, bridges, baggage systems, technical utilities and related assets.	UNSET
2. Demonstrate compatibility with supported aircraft and tasks, inspection, planned maintenance, protective functions, isolation governance and competent release.	UNSET
3. Temporary repairs and bypasses require bounded technical approval and restoration.	UNSET
4. Digital monitoring shall be validated for the failure mechanism and shall not replace mandatory physical checks without an approved basis.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Asset/task capability; compatibility; maintenance and protection checks; controlled temporary conditions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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23.6 — G05 — Catering, cabin and sanitation

Source: AF-AST-STD-001 / FIRST EDITION, p. 39; exact source subclause 23.6.

1. Control catering integrity, cleaning, water/lavatory services, cabin supplies and hygienic handling within the declared tasks.	UNSET
2. Establish appropriate contamination prevention, segregation, temperature/time control where relevant, chemical suitability, equipment condition and traceable delivery.	UNSET
3. Staff shall understand cross-contamination and aircraft compatibility.	UNSET
4. A general quality system shall not substitute for task-specific food, water or sanitation obligations and incident response.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Service boundaries; hygiene and compatibility controls; delivery trace; incident and corrective records.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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23.7 — G06 — FBO and business-aviation support

Source: AF-AST-STD-001 / FIRST EDITION, p. 39; exact source subclause 23.7.

1. Describe the actual fixed-base service package, including passenger/crew support, parking and handling coordination, property care, communications and dependencies.	UNSET
2. Underlying G01–G05 activities shall be evaluated for their own scopes where claimed.	UNSET
3. A coordinator shall verify provider capability and handovers and shall not claim direct performance of services it only arranges.	UNSET
4. Confidentiality, accessible service, emergency communication and disruptions shall be addressed.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. FBO package; direct/arranged distinction; qualified dependencies; handover and recovery.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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23.8 — G07 — Flight and air-navigation support

Source: AF-AST-STD-001 / FIRST EDITION, p. 39; exact source subclause 23.8.

1. Dispatch/flight-support, communications, navigation, surveillance and meteorological services shall each have a dedicated competence and permissions profile.	UNSET
2. Define data origin, timeliness, integrity, operational authority, validation, change control, fallbacks and coordination.	UNSET
3. Verify exact service boundaries and prevent advice from being presented as a public air-navigation or airline operating approval.	UNSET
4. Necessary specialist technical criteria shall be completed before the relevant service is admitted.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Specialist profile; data/authority chain; actual permissions; fallback and coordination evidence.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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23.9 — G08 — Digital and operational systems

Source: AF-AST-STD-001 / FIRST EDITION, p. 40; exact source subclause 23.9.

1. Define software/services, users, interfaces, configuration, performance, cybersecurity, data ownership, external platforms and operational dependencies.	UNSET
2. Validate actual delivery and safe fallback when data are wrong, late or absent, not only when the application is available.	UNSET
3. Control updates, AI-assisted decisions, access, recovery and service termination.	UNSET
4. A platform result shall not grant competence to all integrated service providers or certify every output generated by the software.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Digital service profile; outcome tests; security/recovery; provider and update boundaries.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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23.10 — G09 — Specialist security services

Source: AF-AST-STD-001 / FIRST EDITION, p. 40; exact source subclause 23.10.

1. Evaluate provider identity, authorised activities, staff suitability where lawfully required, competence, training, controlled information, equipment suitability and operational interfaces.	UNSET
2. Evidence access shall be restricted to authorised reviewers with sufficient technical understanding.	UNSET
3. Do not publish sensitive tactical methods or transfer public security powers through an ASTRA credential.	UNSET
4. An inaccessible essential capability shall be excluded or held rather than accepted from an unsupported statement.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Authorised scope; role competence; protected performance evidence; exact claim limits.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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23.11 — Local variation and continuing network control

Source: AF-AST-STD-001 / FIRST EDITION, p. 40; exact source subclause 23.11.

1. Station variations shall identify customer data, infrastructure, language, equipment, staffing, climate, operating hours and local obligations affecting service.	UNSET
2. Monitor incident, delay, damage, complaint and control-performance information with defined denominators.	UNSET
3. Systemic headquarters failures require review across dependent stations; a local failure requires justified extent analysis, not automatic concealment by deleting that station.	UNSET
4. Additions and material changes require demonstrated capability before claim extension.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Local-variation file; network indicators; systemic/local extent; new-station decision.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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24 — F08 — Carbon, environment and climate assurance

24.1 — Engagement and statement boundary

Source: AF-AST-STD-001 / FIRST EDITION, p. 40; exact source subclause 24.1.

1. Identify the responsible entity, assets/sites, reporting period, intended users, statement, methodology, criteria and required form of assurance.	UNSET
2. Separate capability evaluation from statement verification and prospective validation.	UNSET
3. Approve the boundary, exclusions, materiality approach, data access and reporting conditions before evaluation.	UNSET
4. An airport operator's inventory is not automatically the inventory of every aircraft, tenant or service provider connected to it.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Engagement record; exact statement; boundary and period; agreed assurance objective.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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24.2 — C01 — Inventory and data

Source: AF-AST-STD-001 / FIRST EDITION, p. 40; exact source subclause 24.2.

1. Identify direct emissions, purchased-energy emissions and relevant value-chain categories with consistent CO2-equivalent treatment where applicable.	UNSET
2. Retain activity data, factors, units, versions, allocation, estimates, gaps and uncertainty.	UNSET
3. Explain excluded categories and shared sources.	UNSET
4. Trace material figures to actual meters, transactions or justified estimation models.	UNSET
5. A factor supplied for another geography, fuel, year or lifecycle boundary shall not be adopted without a suitability review.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Inventory model; activity/factor evidence; category and boundary rationale; data-quality assessment.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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24.3 — C02 — Reduction and transition

Source: AF-AST-STD-001 / FIRST EDITION, p. 41; exact source subclause 24.3.

1. Verify historical reductions against a controlled comparable baseline and disclose structural changes, method changes, output mix and recalculation.	UNSET
2. Separate absolute and intensity changes and distinguish operational reduction from removal, compensation and avoided emissions.	UNSET
3. A future transition plan shall state assumptions, milestones, finance/resource dependencies, uncertainties and monitoring.	UNSET
4. Validation of that plan is not verification of achieved reduction and shall not be labelled as a net-zero achievement.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Baseline/recalculation; comparable actual results; transition assumptions; separate conclusion types.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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24.4 — C03 — Energy and circular resources

Source: AF-AST-STD-001 / FIRST EDITION, p. 41; exact source subclause 24.4.

1. Define energy, water, waste, hazardous-material, repair, reuse and recovery indicators with boundaries, denominators and measurement methods.	UNSET
2. Track material flows and avoid counting internal recirculation repeatedly as new recovered output.	UNSET
3. Evaluate environmental improvements alongside product eligibility, life history, safety and contamination.	UNSET
4. A recycled-content or recovery percentage does not establish fitness of a critical part for reuse.	UNSET
5. Statements shall identify technical and environmental limitations separately.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Resource flow; measurement basis; repair/reuse eligibility; bounded environmental statements.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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24.5 — C04 — Local environment

Source: AF-AST-STD-001 / FIRST EDITION, p. 41; exact source subclause 24.5.

1. Evaluate local air, noise, discharges, spills and biodiversity interfaces using appropriate location, baseline, sampling and approved methods.	UNSET
2. Address seasonal/operational variability, receptors, source attribution and uncertainty where relevant.	UNSET
3. A reduction in one metric shall not conceal an increased material effect elsewhere.	UNSET
4. Operational controls and incident response shall remain active irrespective of a favourable inventory.	UNSET
5. Specialist permissions and technical criteria shall be established for each claimed local-environment conclusion.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Local methods; sampling and receptors; baseline/uncertainty; operational controls and incidents.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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24.6 — C05 — Climate resilience

Source: AF-AST-STD-001 / FIRST EDITION, p. 41; exact source subclause 24.6.

1. Assess relevant heat, flood, storm, wildfire, water-stress or other physical-risk scenarios across asset life and service dependencies.	UNSET
2. Explain scenario choice, time horizon, vulnerabilities, uncertainty and adaptation decisions.	UNSET
3. Exercise continuity and verify critical protective measures against the stated basis.	UNSET
4. A scenario study is not proof that an asset will survive every future climate condition.	UNSET
5. Update assumptions after material evidence or infrastructure change.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Scenario/vulnerability assessment; adaptation decisions; exercises; limits and review triggers.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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24.7 — C06 — Low-carbon energy and supply claims

Source: AF-AST-STD-001 / FIRST EDITION, p. 41; exact source subclause 24.7.

1. Trace fuel or energy provenance, chain of custody, transfers, conversion, allocation and contractual attributes.	UNSET
2. Distinguish physically delivered material from a separated contractual attribute.	UNSET
3. Check ownership, eligibility, retirement or cancellation where relevant and prevent duplicate allocation of an exclusive claim.	UNSET
4. A purchased credit or fuel invoice alone does not prove that the complete service is zero-emission.	UNSET
5. Publish the actual mechanism and limits of the claim.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Custody/attribute ledger; eligibility and allocation; exclusive-claim checks; transparent statement.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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24.8 — Materiality and assurance planning

Source: AF-AST-STD-001 / FIRST EDITION, p. 41; exact source subclause 24.8.

1. Set quantitative and qualitative materiality for the intended users, statement and consequences before substantive work.	UNSET
2. Plan evidence accordingly and consider aggregation, bias, omissions and fraud indicators.	UNSET
3. There is no universal five-percent materiality or assurance percentage in this standard.	UNSET
4. Materiality does not authorise knowingly false reporting, omitted mandatory categories or ignoring a significant qualitative issue.	UNSET
5. Reasonable and limited assurance engagements shall have separately defined work and appropriately worded conclusions.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Materiality rationale; assurance level; strategic and evidence plan; aggregated/qualitative issues.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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24.9 — Verification execution and independent conclusion

Source: AF-AST-STD-001 / FIRST EDITION, p. 42; exact source subclause 24.9.

1. Evaluate data controls and substantive evidence, challenge estimates, reconcile interfaces and sample material categories.	UNSET
2. Preserve identified misstatements and corrections with the original statement.	UNSET
3. The independent reviewer shall confirm sufficiency for the agreed assurance form.	UNSET
4. If residual misstatement or missing evidence prevents a supportable conclusion, require correction, qualify the conclusion within permitted rules, or decline it; do not issue an unqualified favourable statement to meet a reporting deadline.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Verification trail; misstatement register; revised statement; independent conclusion and limitations.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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24.10 — Overlap, claims and continuing change

Source: AF-AST-STD-001 / FIRST EDITION, p. 42; exact source subclause 24.10.

1. Overlapping direct and value-chain inventories of different entities are not automatically erroneous, but portfolio aggregation and exclusive reduction claims shall avoid inappropriate double counting.	UNSET
2. Report gross quantities, reductions, removals and compensation separately.	UNSET
3. Later evidence invalidating a historical statement requires correction and recipient communication; an instance statement does not require an invented continuing validity period.	UNSET
4. Capability status follows its separate surveillance and change controls.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Overlap/aggregation analysis; separate totals; claim approval; historical correction and capability status.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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25 — Certification, verification and other assessment-provider activities

25.1 — Activity-specific provider controls

Source: AF-AST-STD-001 / FIRST EDITION, p. 42; exact source subclause 25.1.

1. A provider shall identify each assessment activity, legal responsibility, scheme/profile, methods, resources and final decision authority.	UNSET
2. Certification and verification bodies shall demonstrate their full application-to-decision process in addition to supporting technical evaluations.	UNSET
3. Personnel and external experts shall meet role-specific criteria.	UNSET
4. Requested activities lacking actual demonstration remain outside scope.	UNSET
5. The activity labels in Annex I are routing labels, not additional family counts or proof of external standing.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Provider activity schedule; legal/technical responsibility; complete representative process.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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25.2 — Management-system certification

Source: AF-AST-STD-001 / FIRST EDITION, p. 42; exact source subclause 25.2.

1. System-certification activity shall use competent audit teams, scope review, appropriate readiness and implementation evaluation, validated time and site planning, findings, independent review and decision, and continuing surveillance.	UNSET
2. The certifying body shall retain final decision responsibility and control outsourced audit work.	UNSET
3. It shall not certify a system it designed or use a consultancy relationship to secure the result.	UNSET
4. An audit report or training certificate is not itself a management-system certificate.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Audit-route dossier; independence; final retained decision; surveillance.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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25.3 — Product, process and service certification

Source: AF-AST-STD-001 / FIRST EDITION, p. 42; exact source subclause 25.3.

1. Define the relevant conformity model: instance evaluation or continuing family/service/process scope.	UNSET
2. Verify object identity, representative technical evidence, production or delivery controls where ongoing, sampling and decision rules.	UNSET
3. Separate qualification, routine acceptance and certification.	UNSET
4. The body shall demonstrate competence in the actual evaluation methods and scope, not rely on an organisational auditor alone.	UNSET
5. Labels and surveillance shall match the chosen model.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Technical model; representative evaluation; continuing controls; precise certification scope.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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25.4 — Personnel certification

Source: AF-AST-STD-001 / FIRST EDITION, p. 43; exact source subclause 25.4.

1. Maintain a validated job/task profile, fair prerequisites, secure and representative knowledge/practical assessment, independent decision, credential scope, continued competence, renewal and appeal.	UNSET
2. Training and examination relationships shall not compromise independence.	UNSET
3. Essential practical failure blocks the relevant credential regardless of total score.	UNSET
4. Employer task authority and statutory privileges remain separate.	UNSET
5. Apply the relevant AF 9100 personnel provisions when that route is claimed; other profiles shall not silently alter them.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Role scheme; assessment validity/security; independent result; continuing competence and boundaries.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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25.5 — Validation and verification bodies

Source: AF-AST-STD-001 / FIRST EDITION, p. 43; exact source subclause 25.5.

1. Demonstrate competence for the type of claim, sector, data, methodology, assurance level and intended use.	UNSET
2. Separate preparation of a client's statement from independent evaluation of it.	UNSET
3. Verify engagement acceptance, strategic analysis, risk and materiality, evidence plan, execution, misstatement resolution, independent review and conclusion.	UNSET
4. Preserve actual statement versions and communicate later material errors.	UNSET
5. Accreditation concerns the body's competence, not the truth of every statement it may issue.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Claim-specific competence; independent engagement trail; statement version; conclusion and correction.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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25.6 — Proficiency and reference-material activities

Source: AF-AST-STD-001 / FIRST EDITION, p. 43; exact source subclause 25.6.

1. A body organising proficiency exercises or producing reference material requires a separately released technical profile.	UNSET
2. That profile shall cover competence, planning, assigned values or property characterisation, homogeneity/stability, uncertainty, participant/sample confidentiality, statistical methods, reporting and validity.	UNSET
3. These functions shall not be inferred from ordinary laboratory accreditation.	UNSET
4. Until the specialised profile and witnesses are complete, the catalogue shall show the requested activity as development, not granted scope.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Dedicated profile; characterisation/statistical basis; valid specialised witnessing; bounded status.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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26 — Future technology, restricted domains and continuous evidence

26.1 — Novelty and bounded deployment

Source: AF-AST-STD-001 / FIRST EDITION, p. 43; exact source subclause 26.1.

1. A materially novel activity shall have a defined use, technical owner, foreseeable failure mechanisms, evidence gaps and safe development boundary.	UNSET
2. Approval shall distinguish research demonstration, restricted pilot and operational capability.	UNSET
3. Additional evidence, independent challenge and monitoring shall address weak operating history.	UNSET
4. A promising technology readiness label does not authorise normal production or a broader accreditation claim.	UNSET
5. Missing critical performance shall remain an explicit gate rather than a future deliverable assumed complete.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Novelty dossier; restrictions; independent review; demonstrated release conditions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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26.2 — AI, autonomy and adaptive changes

Source: AF-AST-STD-001 / FIRST EDITION, p. 43; exact source subclause 26.2.

1. For an AI-enabled process or service, define intended domain, human authority, data lineage, evaluation sets, failure metrics, uncertainty, exclusions and fallback.	UNSET
2. Evaluate relevant difficult and rare cases separately rather than hiding them in aggregate accuracy.	UNSET
3. Changes to weights, preprocessing, sensors, thresholds or deployment conditions shall trigger impact review.	UNSET
4. Adaptation outside the approved envelope requires renewed assurance before a changed claim is used.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Model/data cards; scenario evidence; enforced limits; controlled change and fallback.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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26.3 — Digital twins and simulation

Source: AF-AST-STD-001 / FIRST EDITION, p. 44; exact source subclause 26.3.

1. A model used as decision evidence shall identify the physical or operational target, version, validation domain, inputs, calibration, uncertainty and limitations.	UNSET
2. Demonstrate fidelity for the specific conclusion and sensitivity to relevant assumptions.	UNSET
3. A visual match or correct calculation does not establish physical validity.	UNSET
4. Maintain the relationship between actual and model configuration after change.	UNSET
5. Simulation may supplement evidence but shall not remove required physical or practical observation without a technically approved basis.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Model-credibility dossier; validation/sensitivity; configuration linkage; approved use boundary.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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26.4 — Remote, space and long-duration operation

Source: AF-AST-STD-001 / FIRST EDITION, p. 44; exact source subclause 26.4.

1. For inaccessible, in-space or delayed-communication work, establish evidence acquisition, identity, configuration, time basis, telemetry validity, data loss, permitted remote actions and safe fallback.	UNSET
2. Explain what is directly observed, inferred or unknown.	UNSET
3. Independent review shall use appropriately authorised experts and retained records.	UNSET
4. No space suitability or completed end-of-life action shall be claimed from an unverified signal or terrestrial analogy alone.	UNSET
5. Mission-specific technical profiles remain prerequisites.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Remote assurance plan; telemetry provenance; inference limits; mission profile and decisions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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26.5 — Continuous monitoring and machine-readable status

Source: AF-AST-STD-001 / FIRST EDITION, p. 44; exact source subclause 26.5.

1. Continuous data may support surveillance only when the measured parameters, failure coverage, integrity, drift, missing-data response and responsible review are validated.	UNSET
2. Live dashboards do not automatically renew credentials or prove every requirement continuously.	UNSET
3. Machine-readable status shall match the authorised human decision, exact scope and history.	UNSET
4. A credential remains subject to expiry, changes, field evidence and remedies.	UNSET
5. Automated alerts may trigger protective review, not secretly issue new authority.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Monitoring validation; alert/action trail; authenticated status; human review and expiry controls.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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26.6 — Hazardous and controlled activities

Source: AF-AST-STD-001 / FIRST EDITION, p. 44; exact source subclause 26.6.

1. Defense, energetic, radiation, hazardous testing and sensitive infrastructure activities shall use authorised personnel and lawful specialist procedures.	UNSET
2. This programme establishes accountability, competence, evidence, segregation and review requirements only; it provides no weapon construction, targeting, offensive cyber, hazardous-source handling or operational attack instructions.	UNSET
3. Confidentiality shall protect legitimate information while allowing sufficient independent review.	UNSET
4. If required access or safety capability is absent, the activity stays outside the live scope.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Permissions; specialist competence; safe evidence access; explicit exclusions and holds.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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27 — Complaints, appeals and protected reporting

27.1 — Accessible intake and classification

Source: AF-AST-STD-001 / FIRST EDITION, p. 44; exact source subclause 27.1.

1. Provide clear channels for complaints, appeals and protected integrity concerns, including anonymous concerns assessed on available evidence.	UNSET
2. A complaint concerns dissatisfaction or service failure; an appeal seeks reconsideration of a specified decision.	UNSET
3. A case may contain both and shall retain the first receipt date with linked issue records.	UNSET
4. Good-faith safety or integrity reporting shall not require payment, membership or a prescribed form.	UNSET
5. Accessible routes shall not weaken necessary identity checks for a personal decision appeal.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Intake record; issue classification; original receipt; accessible and protected channels.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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27.2 — Triage and protection

Source: AF-AST-STD-001 / FIRST EDITION, p. 45; exact source subclause 27.2.

1. Acknowledge receipt within five calendar days where a response channel exists.	UNSET
2. Assess urgent safety, evidence integrity, confidentiality and retaliation concerns immediately without awaiting acknowledgement.	UNSET
3. Preserve original records and prevent implicated personnel from controlling the investigation.	UNSET
4. Protect the reporter's identity as lawfully possible while respecting fair response.	UNSET
5. An allegation alone is not a finding of misconduct, and inability to substantiate it is not proof of bad faith.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Triage; evidence hold; protection plan; independent assignment and fair response.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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27.3 — Appeal admission and independence

Source: AF-AST-STD-001 / FIRST EDITION, p. 45; exact source subclause 27.3.

1. An appeal is normally submitted within 30 calendar days of notice of the contested decision; documented good cause may justify later admission.	UNSET
2. A three-person independent panel shall exclude the original evaluation, review, decision and materially implicated selectors.	UNSET
3. Obtain technical expertise relevant to the scope.	UNSET
4. The original decision maker may explain the record but shall not vote on the appeal.	UNSET
5. Ordinary programme appeals do not replace statutory remedies or arbitral procedures.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Admissibility; panel conflicts/competence; protected case file; participation boundaries.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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27.4 — Investigation, timing and remedy

Source: AF-AST-STD-001 / FIRST EDITION, p. 45; exact source subclause 27.4.

1. Provide an initial substantive complaint response within 30 days and ordinarily determine a complaint or appeal within 60 days of receipt.	UNSET
2. Necessary exceptional extensions shall state reasons, a revised target and progress at least every 30 days; technical protection and expiry clocks remain active.	UNSET
3. Examine both original and new evidence and distinguish later changes from errors in the original basis.	UNSET
4. Uphold, correct, replace, withdraw or return for additional evaluation with reasons and exact status effect.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Investigation trail; party responses; reasoned outcome; communicated timing and remedies.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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27.5 — Systemic effects and non-retaliation

Source: AF-AST-STD-001 / FIRST EDITION, p. 45; exact source subclause 27.5.

1. A substantiated concern shall trigger review of related reports, scopes, methods, personnel and previous decisions, not only the individual case.	UNSET
2. Implement correction and verify effectiveness.	UNSET
3. Do not retaliate through service denial, fees, assignments or confidentiality threats against good-faith reporting.	UNSET
4. A pending appeal does not automatically remove protection, restore a credential or extend validity.	UNSET
5. Public correction shall be proportionate and protect unnecessary personal and confidential information.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Related-case analysis; corrective action; retaliation review; accurate public/status correction.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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28 — Scope statements, marks and public registry

28.1 — Mandatory scope content

Source: AF-AST-STD-001 / FIRST EDITION, p. 45; exact source subclause 28.1.

1. Each outcome shall state holder and responsible issuer, unique identifier, exact class, family/module, criteria and version , evaluated object, site, technical activity, conditions/ranges, configuration or delivery version, period, decision/issue dates, status and restrictions.	UNSET
2. Identify ongoing expiry or instance boundary appropriately.	UNSET
3. The scope schedule forms part of the outcome and shall be available for verification without disclosing protected technical detail.	UNSET
4. Annex I supplies the minimum schema.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Decision-linked scope schedule; claim class; criteria/version; public/private split.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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28.2 — Truthful public wording

Source: AF-AST-STD-001 / FIRST EDITION, p. 46; exact source subclause 28.2.

1. Public wording shall distinguish accredited assessment competence, recognised educational or operational capability, certified conformity and verified historical statements.	UNSET
2. A label shall not imply statutory approval, all-sector authority, guaranteed safety or recognition by an unevidenced third party.	UNSET
3. Group logos and commercial package titles shall not conceal excluded sites, tasks or programmes.	UNSET
4. Every claimed recognition or acceptance arrangement shall be supported by its actual written scope and current terms.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Approved claim; actual acceptance arrangement where claimed; limits clearly communicated.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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28.3 — AF marks and authorised use

Source: AF-AST-STD-001 / FIRST EDITION, p. 46; exact source subclause 28.3.

1. Use only authorised AF artwork and approved scope-specific wording.	UNSET
2. Preserve shape, proportions, legibility and the required identifier; do not create an apparent new certification symbol or apply an organisational mark to imply product approval.	UNSET
3. Permission shall identify holder, purpose, media, period and restrictions.	UNSET
4. Suspension or withdrawal shall end affected current claims promptly.	UNSET
5. Historical factual statements shall state the actual period and status without presenting withdrawn authority as current.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Mark licence; approved artwork/use; monitoring; correction of misuse.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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28.4 — Registry states and authenticity

Source: AF-AST-STD-001 / FIRST EDITION, p. 46; exact source subclause 28.4.

1. Maintain separate entity, application, profile, technical scope, decision, credential, authorisation and statement records.	UNSET
2. Public states shall distinguish active, restricted, suspended, expired, withdrawn and historical instance results.	UNSET
3. Applicant or pilot records shall not appear in a list of accredited holders.	UNSET
4. Validate signatures or other authentication, current status and permitted scope rather than treating a scanned certificate image as conclusive.	UNSET
5. Preserve corrections and prior states.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Validated registry; authenticated decision linkage; separate application/live status; history.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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28.5 — Registry security, correction and availability

Source: AF-AST-STD-001 / FIRST EDITION, p. 46; exact source subclause 28.5.

1. Protect registry integrity through least-privilege access, attributable updates, version history and tested recovery.	UNSET
2. Update status within two calendar days of a decision and communicate urgent restrictions without waiting for a routine update.	UNSET
3. Correct misleading duplicates, stolen identities and altered certificates through controlled investigation.	UNSET
4. Provide an alternative verified status channel during outage without extending expiry.	UNSET
5. The existence of a digital record demonstrates a recorded decision, not universal technical truth.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Access/update logs; two-day control; recovery; corrected misuse and alternative verification.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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29 — Programme quality, independent review and public benefit

29.1 — Internal audit

Source: AF-AST-STD-001 / FIRST EDITION, p. 46; exact source subclause 29.1.

1. Audit every active programme process at least annually, with additional attention to risk, changes, complaints and poor performance.	UNSET
2. Auditors shall be competent and independent of their own work.	UNSET
3. Examine real application-to-outcome trails, rejected cases, technical witnessing, conflicts, calculations, status changes and corrective effectiveness.	UNSET
4. A self-assessment or management statement shall not be presented as independent accreditation of the programme itself.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Risk-based audit programme; independent auditors; actual trails; verified follow-up.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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29.2 — Management review and performance

Source: AF-AST-STD-001 / FIRST EDITION, p. 47; exact source subclause 29.2.

1. Review programme performance and risk quarterly and conduct a formal management review at least annually.	UNSET
2. Inputs shall include technical reliability, impartiality, competence, resources, access, holder outcomes, adverse evidence, complaints, data, finances, emerging needs and prior actions.	UNSET
3. Outputs shall identify decisions, owners, resources, due dates and effectiveness.	UNSET
4. Commercial growth and certificate volume are not sufficient measures of programme quality or public benefit.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Review inputs/minutes; balanced measures; actions and effectiveness.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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29.3 — Independent accrediting-operator review

Source: AF-AST-STD-001 / FIRST EDITION, p. 47; exact source subclause 29.3.

1. Before launch and at intervals no greater than 36 months, obtain an independent review of the accrediting operator's competence, impartiality, technical coverage, governance, decisions and actual implementation, with earlier review after serious concerns.	UNSET
2. The reviewers shall be competent and free of reciprocal self-approval.	UNSET
3. Their findings, limits and corrective results shall be recorded.	UNSET
4. This internal programme requirement does not itself establish membership of an external recognition arrangement or international acceptance.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Independent reviewers; operator evaluation; findings/closure; evidenced limits of standing.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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29.4 — Consistency and technical learning

Source: AF-AST-STD-001 / FIRST EDITION, p. 47; exact source subclause 29.4.

1. Use anonymised case comparisons and calibrated exercises to test whether different competent teams reach compatible interpretations and decisions.	UNSET
2. Investigate material disagreement, including unclear criteria and evidence limitations.	UNSET
3. Do not force uniform outcomes when objects or evidence genuinely differ.	UNSET
4. Share lessons through controlled updates and training without exposing confidential information or changing requirements informally.	UNSET
5. Significant method weaknesses shall trigger review of affected past work.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Inter-evaluator exercises; disagreement analysis; lessons; affected-case correction.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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29.5 — Financial sustainability and public benefit

Source: AF-AST-STD-001 / FIRST EDITION, p. 47; exact source subclause 29.5.

1. Maintain adequate resources for competent work, impartial oversight, remedies, data and continuity.	UNSET
2. Disclose applicable charges and avoid dependence on favourable decisions for financial survival.	UNSET
3. Evaluate access for smaller organisations and less-resourced participants while preserving technical minima.	UNSET
4. Report meaningful benefits and limitations using authentic evidence, not assumed sector-wide adoption.	UNSET
5. Safeguards for competition, controlled technology and conflicts apply to programme outreach as well as assessment.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Budget and independence review; accessible participation; actual benefit measures; lawful outreach.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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30 — Transitions, relationships and programme closure

30.1 — Existing instruments and terminology

Source: AF-AST-STD-001 / FIRST EDITION, p. 47; exact source subclause 30.1.

1. The eight-family architecture and ASTRA identity do not amend existing AF instruments by implication.	UNSET
2. Record compatibility of every proposed outcome with AF-CON-001, AF-SR-001 and any applicable AF technical standard.	UNSET
3. Present educational and operational recognition remains available under compatible profiles; a wider accreditation designation requires the explicit higher-instrument decisions identified in Annex N.	UNSET
4. Do not change AF 9100 or historical certificates merely to align a marketing label.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Compatibility decision; authorised terminology; separate amendment work where needed.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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30.2 — Controlled transition

Source: AF-AST-STD-001 / FIRST EDITION, p. 48; exact source subclause 30.2.

1. For a new profile or substantive version , identify affected holders, evidence gaps, changed methods, competence, system updates, communications and effectivity.	UNSET
2. Set a technically justified transition that does not waive immediate safety duties.	UNSET
3. Preserve the basis of previous decisions and state when additional assessment is needed.	UNSET
4. Neither indefinite grandfathering nor automatic retrospective invalidation is presumed.	UNSET
5. A future requirement is not applied as though it had governed an earlier decision.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Transition plan; holder impact; competence/tool updates; actual effective versions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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30.3 — Reliance and cooperation agreements

Source: AF-AST-STD-001 / FIRST EDITION, p. 48; exact source subclause 30.3.

1. Any agreement to rely on another party's results shall identify parties, exact activities, acceptance conditions, competent evaluation, monitoring, territorial limits, confidentiality and withdrawal.	UNSET
2. Verify authenticity and fit for each actual use.	UNSET
3. Do not infer acceptance from an MoU title, shared event, commercial partnership or similar standard number.	UNSET
4. The party making an acceptance decision retains responsibility for that decision.	UNSET
5. Mutual familiarity is not independent competence evidence.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Executed bounded agreement; evidence checks; monitoring; truthful acceptance statements.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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30.4 — Scope withdrawal and learner/customer protection

Source: AF-AST-STD-001 / FIRST EDITION, p. 48; exact source subclause 30.4.

1. Before closing a profile or provider operation, identify active holders, open cases, pending appeals, unresolved findings, learners, records, status, contracts and financial duties.	UNSET
2. Notify affected parties and arrange lawful transfer or teach-out as relevant.	UNSET
3. A closure shall not erase adverse evidence or imply continued authority.	UNSET
4. Preserve access to historical decisions and correction channels.	UNSET
5. If urgent cessation is required, prioritise protection and accurate communication while completing residual obligations.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Closure plan; affected-party notices; transfer/teach-out; retained records and remedies.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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31 — Records, adoption and implementation sequence

31.1 — Minimum records and equivalent systems

Source: AF-AST-STD-001 / FIRST EDITION, p. 48; exact source subclause 31.1.

1. The records in Annex M shall be created when their triggering activity applies.	UNSET
2. They may be combined in a database or controlled document if identities, required fields, relationships, signatures, access and history remain intact.	UNSET
3. Templates are capture tools, not completed evidence.	UNSET
4. The programme shall not invent applicants, calibration results, witnesses, student attainment, emissions figures, appointments or approvals.	UNSET
5. Blank fields shall remain visibly incomplete until authentic information is entered.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Record dictionary; equivalent-system mapping; genuine data and approvals.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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31.2 — Document hierarchy and phased development

Source: AF-AST-STD-001 / FIRST EDITION, p. 48; exact source subclause 31.2.

1. The master documentation plan shall distinguish this prepared standard from planned manuals, procedures, technical profiles, checklists and forms.	UNSET
2. A planned document code does not mean a file exists or a programme is ready.	UNSET
3. The standard and its applicable normative annexes state the core requirements; implementation documents translate them without adding unapproved duties.	UNSET
4. Each released technical profile shall have the complete operating and record set required for its scope before activation.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Document catalogue; actual file/version status; dependency and release checks.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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31.3 — Actual adoption record

Source: AF-AST-STD-001 / FIRST EDITION, p. 49; exact source subclause 31.3.

1. Record the authenticated legal operator, technical approval, consultation completion, competent institutional adoption, signatories, effective date, applicable instruments and any necessary compatibility amendments.	UNSET
2. Keep edition date distinct from legal or operational effectivity.	UNSET
3. Uncompleted approval fields shall not be filled with assumed names or dates.	UNSET
4. Programme-wide adoption alone shall not activate every listed technical scope; each profile requires the independent readiness and scope decision in Annex P.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Authentic adoption; completed compatibility conditions; individual scope activation.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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31.4 — Implementation and verification

Source: AF-AST-STD-001 / FIRST EDITION, p. 49; exact source subclause 31.4.

1. Implement in the following order: settle authority and permissible outcomes; release core operating controls; validate forms, tools and registry states; establish qualified teams and independent decision functions; complete technical profiles and checklists; conduct representative controlled pilots; close findings; and authorise exact live scopes.	UNSET
2. Annex Q assigns documentation work packages without imposing an invented calendar promise.	UNSET
3. Maintain an open-action register and verify that every active dependency is actually available.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Implementation programme; verified dependencies; pilot/closure; exact live-scope notice.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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31.5 — Review of this edition

Source: AF-AST-STD-001 / FIRST EDITION, p. 49; exact source subclause 31.5.

1. Maintain a controlled master, version history, interpretation register and distribution record.	UNSET
2. Reassess suitability at least every three years and sooner after material safety, technical, legal or implementation evidence.	UNSET
3. Technical changes shall undergo the appropriate normative approval process; editorial changes shall preserve meaning.	UNSET
4. Retain the actual original and revised decision bases.	UNSET
5. Publication, arithmetic checks and visual review do not by themselves establish independent field validation or external recognition.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Maintenance programme; actual versions; controlled corrections; verified publication integrity.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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32 — Integrated lifecycle and mission assurance

32.1 — Mission definition and accountable boundaries

Source: AF-AST-STD-001 / FIRST EDITION, p. 50; exact source subclause 32.1.

1. The responsible organisation shall establish an approved mission or service concept describing intended beneficiaries, objectives, success conditions, operating environments, duration, interfaces and constraints.	UNSET
2. The concept shall distinguish mission success from protection of people, essential infrastructure and the environment when success is no longer achievable.	UNSET
3. Normal, degraded, emergency, maintenance and retirement conditions shall be considered.	UNSET
4. Every assumption supplied by another organisation shall have an owner and a means of verification.	UNSET
5. Commercial ambition or a planned demonstration shall not be recorded as an established operational capability.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Mission concept; responsibility boundary; scenario set; success and protective-state criteria; external-assumption register.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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32.2 — Lifecycle assurance plan

Source: AF-AST-STD-001 / FIRST EDITION, p. 50; exact source subclause 32.2.

1. The assurance plan shall connect requirements, design, procurement, manufacturing, integration, verification, acceptance, operation, support and retirement.	UNSET
2. It shall identify activities that require independent challenge, critical characteristics, technical specialists, resources, records and decision authorities.	UNSET
3. The organisation shall update the plan when mission duration, operating conditions, suppliers or architecture change.	UNSET
4. Planning shall include failures during development and operation, not only the nominal delivery sequence.	UNSET
5. A supplier's assurance plan may provide inputs, but the integrator shall retain responsibility for the completeness of the integrated assurance argument.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Lifecycle assurance plan; interface allocation; critical-characteristic register; review and update history.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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32.3 — Gates and irreversible commitments

Source: AF-AST-STD-001 / FIRST EDITION, p. 50; exact source subclause 32.3.

1. Each lifecycle gate shall have defined entry conditions, required technical evidence, unresolved-issue rules, independent review and an accountable exit decision.	UNSET
2. A gate may authorise limited further development without authorising production, operational deployment or an ASTRA outcome.	UNSET
3. Conditions shall identify permitted work, prohibited commitments, an owner and closure evidence.	UNSET
4. Before an irreversible action, the responsible authority shall explicitly review remaining uncertainty and recovery limitations.	UNSET
5. A schedule milestone, procurement expenditure or successful presentation shall not substitute for a technical gate decision.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Gate criteria; configuration-specific review dossier; decision and conditions; verified closure before dependent action.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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32.4 — Integrated assurance case

Source: AF-AST-STD-001 / FIRST EDITION, p. 50; exact source subclause 32.4.

1. The organisation shall maintain an argument linking each material safety, performance and mission claim to requirements, assumptions, configuration, evidence and limitations.	UNSET
2. The case shall expose adverse evidence, competing explanations, common dependencies and unresolved uncertainty.	UNSET
3. It shall distinguish analysis, simulation, observed demonstration and service experience.	UNSET
4. Independent review shall challenge whether the evidence supports the actual claim rather than merely whether documents exist.	UNSET
5. An accepted component or qualified supplier shall not establish the acceptability of every integrated configuration or operational scenario.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Claim-evidence map; assumption and uncertainty records; counter-evidence; independent challenge; bounded conclusions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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32.5 — Handover and long-life accountability

Source: AF-AST-STD-001 / FIRST EDITION, p. 51; exact source subclause 32.5.

1. Handover shall reconcile the as-built or as-delivered configuration, accepted changes, operating instructions, competent personnel, support arrangements, restrictions and unresolved duties.	UNSET
2. The receiving organisation shall confirm usable access to the information necessary for its role.	UNSET
3. Long-life programmes shall address loss of suppliers, tools, software services and original expertise.	UNSET
4. Record transfer shall preserve meaning and history; it shall not be presented as transfer of regulatory privileges or an expanded conformity scope.	UNSET
5. Responsibilities for later defects and corrections shall remain identifiable after commercial completion.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Handover manifest; receiving acceptance; support and knowledge-preservation plan; continuing-duty allocation.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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32.6 — Through-life feedback and reassessment

Source: AF-AST-STD-001 / FIRST EDITION, p. 51; exact source subclause 32.6.

1. The organisation shall connect incidents, maintenance findings, production changes, field data and user feedback to the original requirements and assurance case.	UNSET
2. Material new evidence shall trigger review of affected configurations and earlier conclusions.	UNSET
3. The review shall distinguish a changed operating context from an error in the original evidence.	UNSET
4. Restrictions, corrective actions and recipient communications shall be proportionate to the supported extent.	UNSET
5. An operational history without a reported failure shall not close a hazard that the monitoring system was unable to detect.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Feedback-to-configuration trace; affected-population review; updated case; corrective and communication records.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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33 — Systems engineering, configuration and interface integrity

33.1 — Requirement quality and allocation

Source: AF-AST-STD-001 / FIRST EDITION, p. 51; exact source subclause 33.1.

1. Requirements shall be identifiable, verifiable, internally consistent and assigned to an accountable implementation and acceptance function.	UNSET
2. The organisation shall record the technical basis, intended use, units, tolerances where relevant, environment and consequence of failure.	UNSET
3. Derived requirements shall retain their relationship to parent needs and constraints.	UNSET
4. Ambiguous terms such as future-ready or aerospace-grade shall be translated into evaluable conditions before they are used for acceptance.	UNSET
5. Requirements that are not yet technically defined shall remain open and shall prevent the dependent positive conclusion.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Requirement baseline; allocation and rationale; verification method; unresolved-definition register.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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33.2 — Multidisciplinary interfaces

Source: AF-AST-STD-001 / FIRST EDITION, p. 51; exact source subclause 33.2.

1. Interface definitions shall address relevant mechanical, structural, electrical, thermal, fluid, data, timing, human and organisational characteristics.	UNSET
2. They shall identify the provider and receiver, valid configurations, ownership, assumptions, error handling and change-notification duties.	UNSET
3. Integration reviews shall examine incompatible assumptions between individually acceptable subsystems.	UNSET
4. Units, coordinate frames, reference times and version conventions shall be explicit.	UNSET
5. Interface acceptance shall include abnormal inputs and loss of a supporting service where material to the intended use.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Interface-control baseline; owner acknowledgements; compatibility review; integrated verification and anomalies.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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33.3 — Configuration states and genealogy

Source: AF-AST-STD-001 / FIRST EDITION, p. 52; exact source subclause 33.3.

1. The configuration system shall distinguish intended, designed, built, tested, delivered, installed and currently operated states.	UNSET
2. Each technical result shall identify the state actually evaluated, including relevant software, parameters, materials and modifications.	UNSET
3. Serial, batch, assembly and parent-child relationships shall survive splitting, replacement and repair.	UNSET
4. Configuration identity shall not be inferred from a commercial product name alone.	UNSET
5. Where a legacy baseline is incomplete, the organisation shall establish the uncertainty and necessary verification before extending the assurance claim.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Configuration register; as-built and as-operated records; genealogy; test-to-configuration links; legacy gap review.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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33.4 — Change impact and independence

Source: AF-AST-STD-001 / FIRST EDITION, p. 52; exact source subclause 33.4.

1. A proposed change shall identify affected requirements, interfaces, hazards, qualification evidence, manufacturing controls, maintenance data, training and public claims.	UNSET
2. The review shall state which prior evidence remains valid and why, what becomes invalid and what new demonstration is required.	UNSET
3. The design or technical authority shall approve the technical disposition, while the independent conformity function separately determines any effect on ASTRA status.	UNSET
4. A document version , new software version or relocated process shall not automatically inherit its predecessor's evidence.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Before-and-after baseline; impact map; retained-evidence argument; new tests; separate technical and status decisions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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33.5 — Engineering budgets and margins

Source: AF-AST-STD-001 / FIRST EDITION, p. 52; exact source subclause 33.5.

1. Relevant mass, power, energy, thermal, structural, timing, memory, communication and consumable budgets shall have a baseline, owner, allocation, uncertainty treatment and review trigger.	UNSET
2. Margin definitions shall be consistent across subsystem and system levels so that the same reserve is not counted more than once.	UNSET
3. Cumulative changes and degraded conditions shall be reviewed.	UNSET
4. A positive arithmetic balance shall not establish physical adequacy where the underlying model, environmental assumption or failure scenario is unsupported.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Budget register; allocation and margin definitions; uncertainty; cumulative-change review; approved technical basis.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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33.6 — Verification closure and model limitations

Source: AF-AST-STD-001 / FIRST EDITION, p. 52; exact source subclause 33.6.

1. The verification matrix shall link each requirement to an approved method, representative configuration, evidence and acceptance decision.	UNSET
2. Unverified interfaces and waived observations shall remain visible.	UNSET
3. A model shall be credible for the particular decision and conditions in which it is used; a visual match or successful numerical execution is insufficient.	UNSET
4. Extrapolation beyond validated conditions requires explicit justification and independent review.	UNSET
5. Verification closure shall not be declared by counting completed tests when a required function or failure condition remains unexamined.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Verification matrix; coverage and configuration review; model limitations; requirement-specific closure.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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34 — Aviation, unmanned systems and advanced air mobility

34.1 — Approval and operational responsibility

Source: AF-AST-STD-001 / FIRST EDITION, p. 53; exact source subclause 34.1.

1. The organisation shall identify the applicable design, production, maintenance and operational approval interfaces and the holders of those responsibilities.	UNSET
2. The technical profile shall define aircraft or equipment configuration, intended operation, environment, limitations and supporting obligations.	UNSET
3. ASTRA conformity shall not be described as an airworthiness certificate, flight clearance or operating licence.	UNSET
4. A change of operator, configuration or intended use shall trigger review of whether the existing evidence and permissions remain relevant.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Responsibility and permission matrix; aircraft/equipment profile; operating boundary; change review.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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34.2 — Installation and integrated compatibility

Source: AF-AST-STD-001 / FIRST EDITION, p. 53; exact source subclause 34.2.

1. Equipment integration shall address mounting and loads, power quality, electromagnetic effects, thermal management, software and data interfaces, timing, access and human interaction as applicable.	UNSET
2. The organisation shall evaluate failure propagation and common resources, including assumptions about other installed systems.	UNSET
3. Component qualification shall be distinguished from installed-system demonstration.	UNSET
4. Modifications shall update affected maintenance data, spares, training and configuration records.	UNSET
5. Unassessed installation effects shall remain a limitation even where the component carries a valid separate conformity result.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Installation assessment; integrated test matrix; interface results; affected-support update records.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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34.3 — Complete unmanned-system boundary

Source: AF-AST-STD-001 / FIRST EDITION, p. 53; exact source subclause 34.3.

1. An unmanned-system assurance case shall include the aircraft, control station, command links, navigation sources, remote personnel, software, external services and operating environment.	UNSET
2. It shall define the operational domain and the response to wrong, late, unavailable or unauthorised information.	UNSET
3. Safe responses to communication loss and degraded navigation shall be demonstrated under the approved technical basis.	UNSET
4. A remote pilot, geofence or automated protective function shall not be presumed effective without evidence for its relevant failure conditions.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. System boundary; domain and dependency map; contingency validation; human-authority and link-loss evidence.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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34.4 — Advanced mobility and ground interfaces

Source: AF-AST-STD-001 / FIRST EDITION, p. 53; exact source subclause 34.4.

1. Programmes using novel aircraft architectures shall demonstrate compatibility with the actual landing site, supporting infrastructure, energy service, passenger movement and emergency arrangements.	UNSET
2. The profile shall distinguish prototype demonstration from routine service capability.	UNSET
3. Ground operations, training and maintenance shall reflect the delivered architecture rather than assume conventional-aircraft equivalence.	UNSET
4. Evidence shall include representative disruptions and degraded support conditions.	UNSET
5. A vertiport or charging capability result shall not independently establish aircraft suitability or permission to conduct a passenger operation.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Aircraft-site interface dossier; support readiness; representative service validation; separate operational permissions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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34.5 — Electric, hybrid and alternative-energy systems

Source: AF-AST-STD-001 / FIRST EDITION, p. 53; exact source subclause 34.5.

1. The organisation shall examine coupled electrical, thermal, mechanical, chemical and control-system hazards for the actual energy architecture and duty cycle.	UNSET
2. It shall define supported operating and storage limits, degradation treatment, protection, isolation and emergency interfaces through competent technical work.	UNSET
3. Maintenance, ground support and responders shall receive controlled information relevant to their role.	UNSET
4. Environmental benefit and technical interchangeability are separate claims; a low-carbon supply statement shall not establish that a fuel or energy system is compatible with the aircraft.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Integrated energy-hazard case; qualified limits; support instructions; compatibility and claim separation.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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34.6 — Continued operation and configuration feedback

Source: AF-AST-STD-001 / FIRST EDITION, p. 54; exact source subclause 34.6.

1. Continuing assurance shall connect operational anomalies, maintenance findings, updates, equipment substitutions and changes in the operating environment to affected aircraft configurations.	UNSET
2. The organisation shall preserve life and condition information and communicate restrictions through the actual responsible approval holders.	UNSET
3. Data-driven monitoring may support this process only within its validated detection boundary.	UNSET
4. A fleet-wide statistical improvement shall not justify continued use of a specific configuration with an unresolved essential control or unsupported maintenance release.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Fleet/configuration trace; occurrence and maintenance feedback; update approvals; actual release and restriction records.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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35 — Space systems and mission-environment assurance

35.1 — Mission architecture and dependencies

Source: AF-AST-STD-001 / FIRST EDITION, p. 54; exact source subclause 35.1.

1. The organisation shall establish the mission architecture, lifecycle responsibilities, communication and support dependencies, expected duration and repairability assumptions.	UNSET
2. The assurance boundary shall include the interactions between payload, spacecraft platform, launch interface and ground segment.	UNSET
3. Commercial or rapid-development objectives shall not remove evidence needed for irreversible mission commitments.	UNSET
4. A technically successful subsystem shall not be described as a complete successful mission where ground, communications or end-of-life responsibilities remain unresolved.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Mission architecture; role and interface matrix; duration and support assumptions; integrated assurance plan.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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35.2 — Environment definition and tailoring

Source: AF-AST-STD-001 / FIRST EDITION, p. 54; exact source subclause 35.2.

1. Relevant mechanical, acoustic, thermal, vacuum, radiation, charging, electromagnetic, contamination and material-degradation environments shall be identified from the intended mission.	UNSET
2. Qualification and acceptance strategies shall state their different purposes and the rationale for selected conditions.	UNSET
3. Test-article differences, fixture effects, cumulative exposure, limitations and potential over-test shall be reviewed.	UNSET
4. Tailoring shall preserve the required confidence in the actual application; a familiar terrestrial test or previous mission label shall not be used as an unexplained substitute.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Mission-environment specification; tailored verification matrix; article differences; exposure and limitation reviews.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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35.3 — Parts, materials and suitability

Source: AF-AST-STD-001 / FIRST EDITION, p. 54; exact source subclause 35.3.

1. Parts and materials shall be selected using provenance, relevant performance evidence, mission consequence and susceptibility to the actual environment.	UNSET
2. The organisation shall examine whether screening, derating, additional qualification or protective design is needed under its approved technical basis.	UNSET
3. Commercial or heritage status alone shall neither establish nor rule out suitability.	UNSET
4. Changes of manufacturer, process, source or intended exposure shall be assessed.	UNSET
5. Missing lot or configuration information shall remain an explicit uncertainty rather than be replaced by a catalogue description.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Parts/materials assurance plan; suitability and provenance records; mission-specific qualification; change controls.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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35.4 — Contamination and cleanliness

Source: AF-AST-STD-001 / FIRST EDITION, p. 55; exact source subclause 35.4.

1. Contamination control shall identify sensitive surfaces, assemblies, materials and operations and the relevant particulate, molecular or biological concerns.	UNSET
2. Requirements shall govern preparation, cleaning, storage, integration, transport and acceptance methods.	UNSET
3. Exposure history and deviations shall be linked to actual articles.	UNSET
4. Where planetary-protection obligations apply, the responsible organisation shall identify the actual requirements and permissions and retain verification evidence.	UNSET
5. An ASTRA statement of cleanliness shall not be presented as an independent authorisation for restricted planetary activities.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Contamination budget or criteria; sensitive-item register; handling records; measured acceptance and required permissions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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35.5 — Ground segment and command assurance

Source: AF-AST-STD-001 / FIRST EDITION, p. 55; exact source subclause 35.5.

1. Ground systems shall have controlled configurations, validated procedures and accountable command authority.	UNSET
2. The organisation shall address command origin, integrity, timing, compatibility and prevention of unintended actions.	UNSET
3. Readiness work shall include rehearsals, outages, handovers, anomaly response and limitations of telemetry.	UNSET
4. The absence of a received alarm shall not prove the absence of a hazardous state when communication or sensing is inadequate.	UNSET
5. Critical remote actions shall use the review and protective controls justified by consequence.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Ground baseline; command-authority records; rehearsal and outage evidence; telemetry interpretation limits.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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35.6 — Mission readiness and uncertainty acceptance

Source: AF-AST-STD-001 / FIRST EDITION, p. 55; exact source subclause 35.6.

1. Before mission commitment, reconcile the delivered configuration, qualification results, open anomalies, ground readiness, operating procedures, available resources and end-of-life plan.	UNSET
2. Unresolved essential conditions shall block the dependent positive release.	UNSET
3. A permitted limited development decision shall state what remains prohibited.	UNSET
4. The accountable technical authority shall record residual uncertainty and limitations without claiming that every possible mission condition has been demonstrated.	UNSET
5. Subsequent evidence shall update the actual mission assurance case and relevant recipients.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Integrated readiness dossier; independent review; bounded decision; unresolved-duty and limitation register.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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36 — Launch, re-entry, reuse and spaceport interfaces

36.1 — Precise activity and authority

Source: AF-AST-STD-001 / FIRST EDITION, p. 55; exact source subclause 36.1.

1. The profile shall identify the responsible legal entities, launch or re-entry service, site, vehicle or article, configuration, support equipment and relevant approval interfaces.	UNSET
2. The organisation shall distinguish vehicle design assurance, site capability, mission readiness and an individual operational permission.	UNSET
3. Contracts shall identify retained responsibilities across customers and subcontractors.	UNSET
4. No conventional-airport, generic laboratory or broad aerospace-system result shall automatically confer competence for launch or re-entry activities.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Exact activity/site profile; permissions; responsibility and interface agreements; distinct outcome boundaries.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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36.2 — Site, vehicle and payload compatibility

Source: AF-AST-STD-001 / FIRST EDITION, p. 56; exact source subclause 36.2.

1. The organisation shall verify compatibility of the actual vehicle, payload, ground support, utilities, data exchange and handling interfaces.	UNSET
2. It shall examine the consequences of a changed payload, supporting system or operating condition on earlier evidence.	UNSET
3. The applicable technical authorities shall resolve inconsistent interface assumptions before dependent use.	UNSET
4. Acceptance shall be based on the actual configuration; the presence of an interface drawing or a previous successful operation shall not establish compatibility of a materially changed arrangement.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Configuration-specific interface matrix; reviewed changes; integration checks; unresolved-interface controls.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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36.3 — Readiness and hazardous-work separation

Source: AF-AST-STD-001 / FIRST EDITION, p. 56; exact source subclause 36.3.

1. Operational readiness shall verify necessary people, equipment, approved technical data, protective functions, communication, emergency interfaces and stop authorities.	UNSET
2. Technical acceptance criteria and protective stop conditions shall be distinguished.	UNSET
3. The ASTRA assessment shall examine whether competent authorised organisations implement their controls, not direct a launch, set hazardous operating parameters or substitute for public safety decisions.	UNSET
4. Inaccessible essential evidence shall result in an appropriate scope restriction or hold rather than a presumption of safe capability.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Readiness review; current specialist procedures; protective-function evidence; lawful witnessing and approval boundaries.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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36.4 — Reuse and accumulated exposure

Source: AF-AST-STD-001 / FIRST EDITION, p. 56; exact source subclause 36.4.

1. Reusable articles shall retain identity, configuration, prior flights or uses, maintenance, refurbishment, repairs and accumulated relevant exposure.	UNSET
2. The organisation shall define how the reuse decision is supported by inspection capability, life assessment and qualified repair or replacement.	UNSET
3. A successful prior mission shall not reset life or conceal damage.	UNSET
4. Unknown history shall remain a controlled uncertainty.	UNSET
5. New materials, repair methods or changed duties shall undergo technical review before previous qualification is relied upon.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Article history; exposure and condition record; inspection and repair evidence; configuration-specific reuse decision.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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36.5 — Recovery, re-entry and end-of-operation interfaces

Source: AF-AST-STD-001 / FIRST EDITION, p. 56; exact source subclause 36.5.

1. The assurance plan shall identify the responsible parties for recovery, containment of residual hazards, custody, transport, environmental obligations and subsequent examination.	UNSET
2. Expected behaviour and evidence limitations shall be explicit where direct access is not possible.	UNSET
3. Disposal or recovery shall not be claimed complete from an unverified signal or an unchanged plan.	UNSET
4. The organisation shall retain actual completion evidence and communicate unsuccessful, partial or uncertain outcomes accurately to the relevant authorities and recipients.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Recovery/disposition responsibilities; actual status evidence; custody record; limitations and recipient communication.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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36.6 — Learning without automatic scope expansion

Source: AF-AST-STD-001 / FIRST EDITION, p. 56; exact source subclause 36.6.

1. After each relevant operation or development event, review anomalies, interface deviations, protective actions and changes in the technical basis.	UNSET
2. Separate lessons about a particular configuration from claims about an entire vehicle or site family.	UNSET
3. A new payload class, service mode, site or re-entry concept shall require an assessed extension before an expanded ASTRA claim is used.	UNSET
4. Operational experience may support an equivalence argument, but shall not replace evidence for a new failure mechanism.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Post-event review; bounded experience argument; extension assessment; updated profile and readiness basis.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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37 — Orbital operations, servicing and in-space manufacturing

37.1 — Operational state and authority

Source: AF-AST-STD-001 / FIRST EDITION, p. 57; exact source subclause 37.1.

1. The operator shall maintain the identity and configuration of the space asset, relevant operating states, authorised commands, current restrictions and responsible personnel.	UNSET
2. Handover between ground teams and external service providers shall preserve assumptions, unresolved anomalies and authority limits.	UNSET
3. Telemetry-derived state shall be distinguished from direct observation and unverified inference.	UNSET
4. Where the state necessary to support an action is unknown, the approved decision process shall retain the uncertainty and apply the protective boundary defined for the mission.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Asset/configuration record; command and duty authority; state confidence and limitations; handover evidence.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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37.2 — Tracking, coordination and environmental responsibility

Source: AF-AST-STD-001 / FIRST EDITION, p. 57; exact source subclause 37.2.

1. The programme shall identify its applicable tracking, coordination, collision-information, debris-prevention and end-of-life responsibilities.	UNSET
2. Data sources, age, reference systems, uncertainty and dependency on other operators shall be recorded where material.	UNSET
3. The organisation shall not present a coordination message or nominal plan as proof that every external hazard is controlled.	UNSET
4. Changes in mission duration, orbit or support availability shall trigger review of the assurance case and remaining resources under the actual approval framework.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Responsibility register; data-provenance and uncertainty records; coordination evidence; updated end-of-life assessment.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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37.3 — Servicing and assembly boundaries

Source: AF-AST-STD-001 / FIRST EDITION, p. 57; exact source subclause 37.3.

1. A servicing or assembly activity shall identify participating assets, interface configurations, ownership, consent, technical responsibilities and safe-state assumptions.	UNSET
2. The evidence plan shall address limited inspection access, communication delay, remote verification and the consequences of failure to complete the intended task.	UNSET
3. Prior acceptance of each separate asset shall not prove compatibility of their interaction.	UNSET
4. The organisation shall establish the basis on which completion, partial completion or an unverified result will be recorded and independently reviewed.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Authorised activity boundary; interface and consent records; remote verification plan; exact completion criteria.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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37.4 — In-space manufacturing and process evidence

Source: AF-AST-STD-001 / FIRST EDITION, p. 57; exact source subclause 37.4.

1. Manufacturing in an inaccessible environment shall connect input material identity, process configuration, relevant environmental conditions, monitoring capability and output requirements.	UNSET
2. The organisation shall identify which properties are directly measured, inferred through a validated model or not observable.	UNSET
3. A terrestrial process qualification shall not automatically qualify in-space use.	UNSET
4. Monitoring data may replace a physical acceptance activity only when the equivalence is technically supported and prospectively approved for the defined product and process boundary.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Environment-specific qualification; material genealogy; sensor/model validity; output acceptance and observability limitations.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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37.5 — Remote changes and interruption

Source: AF-AST-STD-001 / FIRST EDITION, p. 58; exact source subclause 37.5.

1. Software, command sequences, process parameters and operational procedures shall remain configuration controlled.	UNSET
2. The change review shall examine interruptions, partial execution, stale data, recovery and the technical feasibility of rollback.	UNSET
3. A returned communication link or successful software restart shall not by itself confirm that a physical process or asset state has been restored.	UNSET
4. The responsible authority shall reconcile what actually occurred before permitting dependent use or a completed-service claim.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Change and update dossier; interrupted-action records; reconciled physical/digital state; restoration authority.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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37.6 — Disposal and verifiable closure

Source: AF-AST-STD-001 / FIRST EDITION, p. 58; exact source subclause 37.6.

1. End-of-life planning shall address foreseeable failure, remaining resources, support continuity and evidence of actual completion.	UNSET
2. The organisation shall preserve unresolved obligations and explain whether a final state is observed, inferred or unknown.	UNSET
3. Loss of contact shall not be labelled successful disposal without adequate evidence.	UNSET
4. Programme or provider closure shall identify a receiving custodian for necessary records and notifications.	UNSET
5. Public claims shall describe the bounded achievement rather than guarantee perpetual orbital safety or universal sustainability.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Disposal feasibility review; actual completion record; open-duty allocation; retained history and accurate public statement.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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38 — Lunar, planetary and remote-surface systems

38.1 — Environment-specific mission concept

Source: AF-AST-STD-001 / FIRST EDITION, p. 58; exact source subclause 38.1.

1. The organisation shall define the intended surface environment, mission duration, mobility or service objectives, communication constraints, energy dependencies and support assumptions.	UNSET
2. Requirements shall address conditions relevant to the actual mission, including dust or contamination, terrain interaction, thermal exposure and access limitations.	UNSET
3. Terrestrial vehicle or industrial qualification shall be treated as evidence with a stated boundary, not automatic proof of suitability.	UNSET
4. Unsupported assumptions shall remain open before any dependent technical or conformity decision.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Surface mission concept; environmental and dependency specification; applicability of terrestrial evidence; open assumptions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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38.2 — Mobility and integrated resource assurance

Source: AF-AST-STD-001 / FIRST EDITION, p. 58; exact source subclause 38.2.

1. A mobility-system assurance case shall connect structure, locomotion, power, thermal control, autonomy, sensing, communications and payload interfaces.	UNSET
2. The programme shall assess coupled resource demands and degradation across the planned mission rather than demonstrate each subsystem only in isolation.	UNSET
3. Requirements and margins shall identify uncertainty and credible loss of a supporting service.	UNSET
4. The organisation shall define the evidence needed for restricted operation and safe cessation when mission objectives can no longer be achieved.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Integrated resource budgets; interface validation; degraded-condition analysis; bounded operating and cessation criteria.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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38.3 — Remote autonomy and human intervention

Source: AF-AST-STD-001 / FIRST EDITION, p. 59; exact source subclause 38.3.

1. The operational-domain definition shall specify the authority allocated to automation and remote personnel and the conditions under which human intervention is feasible.	UNSET
2. Communication delay, incomplete sensing and limited observation shall be included in validation.	UNSET
3. A nominal human-approval step shall not be treated as effective where there is insufficient time or information to act.	UNSET
4. Material adaptation outside the approved envelope shall require renewed assurance before the changed behaviour is relied upon.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Authority and intervention model; scenario validation; sensing limits; change and adaptation controls.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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38.4 — Surface infrastructure and resource activities

Source: AF-AST-STD-001 / FIRST EDITION, p. 59; exact source subclause 38.4.

1. Infrastructure, construction, handling and resource-processing activities shall have defined ownership, technical boundaries, environmental assumptions and acceptance criteria.	UNSET
2. The organisation shall assess material properties, connection interfaces, inspection accessibility, maintenance and decommissioning within its actual responsibility.	UNSET
3. Demonstrating a laboratory process shall not establish deployment readiness of an integrated remote facility.	UNSET
4. Specialist permissions and environmental obligations remain separate from the ASTRA evaluation, and no resource-rights claim is created by this standard.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Infrastructure or process profile; representative qualification; interface evidence; permissions and end-of-life responsibilities.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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38.5 — Maintenance, retrieval and inaccessible evidence

Source: AF-AST-STD-001 / FIRST EDITION, p. 59; exact source subclause 38.5.

1. The assurance strategy shall identify what can be maintained, inspected, retrieved or replaced and what must remain supported by remote evidence.	UNSET
2. Diagnostic and health-monitoring methods shall be validated for the relevant failure mechanisms and shall expose false-negative and missing-data limitations.	UNSET
3. Where a physical condition cannot be established, the remaining uncertainty shall be retained.	UNSET
4. An apparently normal telemetry stream shall not replace evidence of an unobservable critical property or an inaccessible required inspection.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Supportability and access analysis; diagnostic validation; inaccessible-property register; approved restrictions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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38.6 — Responsible completion and knowledge preservation

Source: AF-AST-STD-001 / FIRST EDITION, p. 59; exact source subclause 38.6.

1. The organisation shall maintain the mission record, materials and configuration history, command and data provenance, anomalies and final-state evidence.	UNSET
2. Closure shall address environmental and protection obligations, remaining hazardous inventories, long-term custody and the ability to interpret records after tool or staff changes.	UNSET
3. Scientific results, engineering demonstrations and operational capability claims shall be identified separately.	UNSET
4. A research success shall not be relabelled as a fully qualified production or service capability without its own evidence and decision.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Complete mission dossier; final-state limitations; record custody; separate research and conformity conclusions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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39 — Human-system integration, crew and passenger protection

39.1 — Intended users and representative conditions

Source: AF-AST-STD-001 / FIRST EDITION, p. 60; exact source subclause 39.1.

1. The organisation shall define the relevant users, tasks, environment, expected duration, physical access, communication and operational constraints.	UNSET
2. Human-system requirements shall consider capabilities, limitations and reasonably foreseeable behaviour.	UNSET
3. Validation shall use representative users and conditions where practicable and state the limitations of substitutes or simulation.	UNSET
4. A single expert operator or ideal-condition demonstration shall not establish usability for all intended users or emergency conditions.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. User/task analysis; representative population and scenario rationale; validation results and limitations.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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39.2 — Workload, information and error recovery

Source: AF-AST-STD-001 / FIRST EDITION, p. 60; exact source subclause 39.2.

1. Interfaces and procedures shall provide understandable status, priorities, warnings and recovery information appropriate to the task.	UNSET
2. The organisation shall evaluate workload, fatigue, interruption, handover, language and the ability to recover from foreseeable errors.	UNSET
3. A warning shall not be the sole mitigation where an essential design or protective control is required.	UNSET
4. Nominal response time shall be distinguished from the time demonstrated by actual users under representative workload and degraded-information conditions.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Interface requirements; workload and interruption studies; observed recovery; design and protective-control decisions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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39.3 — Life-support and habitation responsibilities

Source: AF-AST-STD-001 / FIRST EDITION, p. 60; exact source subclause 39.3.

1. Where life-support or habitation systems are within scope, responsibilities shall cover the integrated environment, consumables, monitoring, maintenance, degradation and emergency interfaces.	UNSET
2. The technical basis shall identify the expected occupancy and mission duration and the consequences of loss of a supporting function.	UNSET
3. The organisation shall obtain competent specialist review appropriate to consequence and actual legal obligations.	UNSET
4. User acceptance of risk shall not replace required technical controls, independent review or operational permission.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Life-support responsibility matrix; occupancy/duration basis; integrated verification; independent specialist review.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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39.4 — Emergency response and safe-return assumptions

Source: AF-AST-STD-001 / FIRST EDITION, p. 60; exact source subclause 39.4.

1. The organisation shall identify emergency scenarios and the interfaces on which rescue, safe return, evacuation or continued protection depend.	UNSET
2. Agreements shall be supported by evidence of actual availability and compatible communication, equipment and competence.	UNSET
3. Exercises shall be safe and representative of the response being claimed.	UNSET
4. A signed cooperation document or an optimistic recovery time shall not establish effective emergency capability where a critical resource or external service remains unavailable.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Scenario and dependency analysis; resource availability; exercised interfaces; corrective follow-up and limitations.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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39.5 — Maintenance and worker protection

Source: AF-AST-STD-001 / FIRST EDITION, p. 60; exact source subclause 39.5.

1. Work design shall address hazards affecting people and conformity, including access, lifting, hazardous energy, exposure, fatigue and restoration after intervention.	UNSET
2. Contractors and temporary personnel shall receive relevant task controls and supervision.	UNSET
3. The organisation shall preserve stop-work and escalation rights without retaliation.	UNSET
4. This standard does not replace a complete workplace safety framework; it requires the actual obligations and competent protective arrangements to be integrated with the claimed aerospace activity.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Work-risk interfaces; task authorisation; contractor controls; interruption and safe-restoration records.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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39.6 — Human authority in automated systems

Source: AF-AST-STD-001 / FIRST EDITION, p. 60; exact source subclause 39.6.

1. Automation shall have explicit authority limits and an identified accountable organisation.	UNSET
2. Human oversight shall be evaluated for actual information, time, skill and ability to intervene, not simply the presence of a person in a process diagram.	UNSET
3. Training shall cover limitations, misleading outputs and degraded modes.	UNSET
4. Material changes in automation, tasks or user populations shall trigger reassessment.	UNSET
5. A favourable aggregate task-completion rate shall not compensate for a failed essential protective response.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Authority allocation; intervention validation; representative training and assessment; change review; essential-step results.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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40 — Defense, land, maritime and industrial assurance

40.1 — Contractual, technical and lawful boundaries

Source: AF-AST-STD-001 / FIRST EDITION, p. 61; exact source subclause 40.1.

1. The organisation shall identify actual quality, safety, security, configuration, verification and support obligations and the parties entitled to accept the work.	UNSET
2. Contractual acceptance, mission-performance evidence and legal permission shall remain separate.	UNSET
3. Controlled or classified information shall be reviewed through authorised arrangements that still provide adequate independent evidence.	UNSET
4. An inaccessible essential record shall lead to a held or limited claim, not acceptance based solely on the authority or reputation of the submitting party.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Obligation and acceptance matrix; access authorisations; protected evidence strategy; exact scope and limitations.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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40.2 — Multi-domain integration

Source: AF-AST-STD-001 / FIRST EDITION, p. 61; exact source subclause 40.2.

1. Air, land, maritime, space and connected digital systems shall be assessed for interface compatibility, environmental exposure, common dependencies and safe degraded behaviour.	UNSET
2. The organisation shall define safe states for training, storage, transport, maintenance and non-operational use.	UNSET
3. Individually accepted equipment shall not be assumed to form an acceptable integrated platform.	UNSET
4. Hazardous tests shall remain separately authorised, with competent specialists responsible for the applicable procedures and protective limits.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Multi-domain interfaces; integrated verification; safe-state definitions; separate hazardous-test authorisations.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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40.3 — Mission-support road and off-road vehicles

Source: AF-AST-STD-001 / FIRST EDITION, p. 61; exact source subclause 40.3.

1. The profile shall define actual duty, load, terrain, climate, transport, support and occupant requirements.	UNSET
2. Integration of mission equipment shall examine effects on structure, stability, braking, steering, energy, thermal behaviour, visibility and maintenance where relevant.	UNSET
3. A commercial chassis or component result shall not establish suitability of the modified configuration.	UNSET
4. Civil-use and mission-specific obligations shall both be identified when they apply, without presenting ASTRA as a substitute vehicle approval.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Duty profile; configuration and integration assessment; representative qualification; maintenance and approval interfaces.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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40.4 — Maritime and underwater systems

Source: AF-AST-STD-001 / FIRST EDITION, p. 61; exact source subclause 40.4.

1. The assurance basis shall identify relevant structural, corrosion, pressure, electrical, propulsion, watertight-integrity and human-system requirements.	UNSET
2. Critical boundaries, joints, coatings and machinery shall retain material, qualification, inspection and through-life condition evidence.	UNSET
3. Inspection accessibility and deterioration shall be addressed before installation or concealment.	UNSET
4. Applicable customer and competent-authority decisions remain separate from the ASTRA result.	UNSET
5. A surface-system qualification shall not establish suitability for a different submerged duty or pressure environment without technical justification.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Maritime duty basis; critical-boundary records; qualified fabrication and inspection; deterioration and access plan.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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40.5 — Heavy plant and industrial infrastructure

Source: AF-AST-STD-001 / FIRST EDITION, p. 61; exact source subclause 40.5.

1. Industrial assets supporting aerospace or defense work shall have a defined design basis, operating limits, utilities, protective functions and lifecycle responsibilities.	UNSET
2. Fabrication, installation and commissioning shall distinguish completed construction from verified functional and integrated performance.	UNSET
3. Hidden work shall be inspected before it becomes inaccessible where required.	UNSET
4. Bypasses, temporary repairs and overrides shall have bounded authority and verified restoration.	UNSET
5. This standard is not a structural, pressure-system or nuclear design code.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Asset integrity dossier; as-built records; commissioning results; temporary-condition controls; applicable technical basis.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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40.6 — Controlled technology and long-life support

Source: AF-AST-STD-001 / FIRST EDITION, p. 62; exact source subclause 40.6.

1. The organisation shall identify obligations for access, transfer, end use, publication and technical support through competent authorised review.	UNSET
2. Supply due diligence shall address provenance, unauthorised substitution, conflicts and misuse concerns.	UNSET
3. Long-life support shall preserve field configurations, repair data, software maintainability, diminishing sources and qualified substitutions.	UNSET
4. Cannibalisation or refurbishment shall retain prior life and origin; unknown history shall not be reset.	UNSET
5. Membership or an ASTRA credential does not authorise a controlled transfer.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Controlled-technology review; supplier due diligence; field-history and obsolescence plan; substitution and custody records.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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41 — Materials, advanced manufacture and critical processes

41.1 — Material identity and technical suitability

Source: AF-AST-STD-001 / FIRST EDITION, p. 62; exact source subclause 41.1.

1. The organisation shall define material composition or type, condition, relevant properties, processing history and acceptance evidence appropriate to intended use.	UNSET
2. Receipt, storage, shelf life, out-time, mixing, splitting and reuse shall preserve identity and suitability.	UNSET
3. Recycled or reclaimed content shall satisfy the same applicable technical requirements; an environmental benefit shall not replace qualification.	UNSET
4. A material certificate shall be linked to the actual supplied lot and reviewed for its technical relevance, not accepted solely because a certificate exists.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Material specification; lot genealogy; storage and out-time record; suitability and substitution decisions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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41.2 — Integrated route and hidden characteristics

Source: AF-AST-STD-001 / FIRST EDITION, p. 62; exact source subclause 41.2.

1. The production route shall identify every process stage, branch, handover and external performer that can affect a required characteristic.	UNSET
2. Essential variables shall include relevant preparation and downstream treatment, not only the main machine cycle.	UNSET
3. Qualification shall cover representative materials, geometry, equipment, software, personnel and environmental conditions.	UNSET
4. Final inspection shall not be assumed capable of detecting all latent process defects.	UNSET
5. The route shall preserve failed runs, rework and technical restrictions through product acceptance.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Route and dependency map; qualification matrix; essential variables; hidden-property rationale; original run history.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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41.3 — Thermal, joining and surface processes

Source: AF-AST-STD-001 / FIRST EDITION, p. 62; exact source subclause 41.3.

1. Thermal treatment, joining, brazing, soldering, chemical preparation, plating, conversion, spray, organic coating and mechanical surface enhancement shall have scope-specific qualified procedures.	UNSET
2. The organisation shall identify the actual equipment, materials, essential variables, monitoring, verification and requalification triggers.	UNSET
3. Changes affecting hidden properties shall receive competent technical review.	UNSET
4. This standard establishes the assurance payload; it does not supply universal treatment temperatures, chemical formulations, energy settings, joining parameters or acceptance limits.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Qualified procedure and window; equipment and personnel scope; actual process history; verified properties and change review.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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41.4 — Composites, bonding and additive manufacture

Source: AF-AST-STD-001 / FIRST EDITION, p. 63; exact source subclause 41.4.

1. Composite and bonded products shall retain constituent identity, storage and out-time, surface preparation, lay-up or assembly, tooling, cure and inspection evidence.	UNSET
2. Additive work shall retain feedstock history, machine and software state, digital build identity, orientation, monitoring and post-processing.	UNSET
3. Qualification shall address the relevant product geometry and property variations.	UNSET
4. A qualified machine, material or sensor shall not approve every output.	UNSET
5. In-process monitoring may support acceptance only within a validated detection and decision boundary.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Constituent/build genealogy; qualified process envelope; representative property evidence; monitoring limitations; post-process acceptance.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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41.5 — Electronics, harnesses, optics and critical assembly

Source: AF-AST-STD-001 / FIRST EDITION, p. 63; exact source subclause 41.5.

1. Assembly assurance shall control component suitability and authenticity, loaded configuration, interconnections, contamination-sensitive operations, fixtures, tools and essential checks.	UNSET
2. Concealed or irreversible steps shall retain contemporaneous evidence.	UNSET
3. The organisation shall distinguish visual workmanship, electrical or functional performance and system-level suitability.	UNSET
4. Rework and part substitution shall be technically reviewed and traceable.	UNSET
5. A successful bench test shall not establish compatibility with every installation, and a supplier's broad qualification shall not replace actual assembly-route evidence.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Assembly baseline; component and software identity; concealed-step records; functional results; reviewed rework and installation limits.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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41.6 — Production readiness, transfer and continuing control

Source: AF-AST-STD-001 / FIRST EDITION, p. 63; exact source subclause 41.6.

1. Before routine production or transfer, verify process qualification, first-article characteristic accountability, measurement capability, workforce competence, source controls and actual receiving-site implementation.	UNSET
2. Separate process stability, capability indices and individual acceptance.	UNSET
3. Low-volume work shall use an appropriate evidence strategy rather than an unsupported statistical claim.	UNSET
4. After an excursion or change, trace affected populations from the last demonstrated valid state and establish what new evidence is necessary before unrestricted use resumes.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Production-readiness dossier; receiving capability; monitoring design; affected-population and requalification decisions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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42 — Test, qualification and environmental verification

42.1 — Requirement-led test strategy

Source: AF-AST-STD-001 / FIRST EDITION, p. 63; exact source subclause 42.1.

1. The organisation shall select inspection, analysis, demonstration or testing according to the requirement and intended decision.	UNSET
2. The plan shall identify the actual article, configuration, environment, acceptance criterion, method, instrumentation, uncertainty, competent personnel and protective arrangements.	UNSET
3. Qualification, production acceptance, workmanship screening and research shall be distinguished.	UNSET
4. A catalogue of tests shall not be treated as a complete verification programme until every applicable requirement and material interface has an adequate method and evidence path.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Requirement-to-method matrix; test purpose; article/configuration identity; approved criteria and safety review.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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42.2 — Test tailoring and representativeness

Source: AF-AST-STD-001 / FIRST EDITION, p. 64; exact source subclause 42.2.

1. Test conditions shall be derived from the actual technical and obligation basis.	UNSET
2. The organisation shall explain specimen geometry, material condition, mounting, fixtures, boundary conditions, input locations, operating modes and differences from the deployed article.	UNSET
3. Similarity arguments shall identify relevant differences and failure mechanisms.	UNSET
4. Tailoring, reduced exposure or substitution of analysis shall have prospective technical approval.	UNSET
5. No universal vibration level, temperature, radiation dose, acoustic spectrum or electromagnetic severity is imposed by this standard.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Tailoring rationale; environment definition; specimen and fixture review; approved deviations and retained limitations.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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42.3 — Combined environments and test sequence

Source: AF-AST-STD-001 / FIRST EDITION, p. 64; exact source subclause 42.3.

1. The verification strategy shall evaluate whether environmental stresses interact and whether the order of exposure affects the conclusion.	UNSET
2. Cumulative damage, preconditioning, repairs, software changes and prior unsuccessful tests shall remain part of the article history.	UNSET
3. The organisation shall distinguish necessary qualification margin from unrepresentative over-test.	UNSET
4. Where separate tests cannot demonstrate a coupled effect, an additional integrated method or justified analysis shall be established.	UNSET
5. A passed individual test shall not automatically bound every combination of operating conditions.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Sequence and interaction analysis; article exposure history; cumulative-effect review; additional integrated evidence.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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42.4 — Data acquisition, uncertainty and protective limits

Source: AF-AST-STD-001 / FIRST EDITION, p. 64; exact source subclause 42.4.

1. Instrumentation and software shall be suitable for the required range, bandwidth, accuracy, synchronisation and uncertainty.	UNSET
2. The organisation shall retain original data, transformations, calibration and configuration evidence.	UNSET
3. Technical acceptance and safety-stop criteria shall be specified separately.	UNSET
4. An interruption, missing channel or unexpected protective action shall be recorded and assessed before restart.	UNSET
5. Restoring the test setup shall not establish that the article remains representative or that the interrupted evidence supports the intended conclusion.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Measurement-chain dossier; raw data; uncertainty and timing; stop/restart records; article-validity review.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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42.5 — Failure, retest and independent judgement

Source: AF-AST-STD-001 / FIRST EDITION, p. 64; exact source subclause 42.5.

1. Failed, invalid and indeterminate results shall remain identifiable with their original conditions.	UNSET
2. A retest shall follow an approved technical rationale and account for selection effects, changed articles, repairs and repeat exposure.	UNSET
3. The organisation shall not test repeatedly until a favourable result appears or revise acceptance criteria after seeing the data.	UNSET
4. The independent reviewer shall examine coverage, adverse evidence and limitations.	UNSET
5. Any product concession shall remain separate from a conformity claim that requires the original criterion to be fulfilled.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Failure and validity classification; retest rationale; original/revised configuration; independent acceptance or hold.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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42.6 — Laboratories and complete reports

Source: AF-AST-STD-001 / FIRST EDITION, p. 64; exact source subclause 42.6.

1. Testing shall use demonstrated method-specific competence, suitable facilities, traceability and continuing-validity controls.	UNSET
2. Reports shall identify actual performer, article, method/version , conditions, deviations, results, uncertainty where relevant, decision rule and supported conclusion.	UNSET
3. Subcontracted data and opinions shall be distinguishable.	UNSET
4. A laboratory competence outcome does not approve every tested product, and an article qualification does not accredit the laboratory.	UNSET
5. The final report shall expose untested characteristics and restrictions on inference to a broader family.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Laboratory scope and validity; complete test report; subcontractor identity; independent review and limited inference.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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43 — Propulsion, electrification and hazardous-energy assurance

43.1 — Integrated energy boundary

Source: AF-AST-STD-001 / FIRST EDITION, p. 65; exact source subclause 43.1.

1. The organisation shall define the complete energy-system boundary and the interactions among mechanical, electrical, thermal, chemical and control functions.	UNSET
2. Requirements shall cover transport, storage, charging or fuelling, operation, maintenance and end of life as applicable.	UNSET
3. Common dependencies and abnormal states shall be considered.	UNSET
4. Separate component results shall not establish integrated protection where failure can propagate across interfaces.	UNSET
5. Every critical limit and protective function shall have an approved technical basis and a method of verification.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Energy architecture; lifecycle hazard analysis; requirement and protection map; integrated verification.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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43.2 — Batteries and electrical storage

Source: AF-AST-STD-001 / FIRST EDITION, p. 65; exact source subclause 43.2.

1. Battery assurance shall retain cell and module provenance, configuration, manufacturing consistency, protective controls, thermal management and actual operating history.	UNSET
2. Qualification shall address relevant degradation and credible abnormal conditions under the approved application basis.	UNSET
3. State estimates and health-monitoring outputs shall identify their model and uncertainty.	UNSET
4. Reuse or second-life use shall require a new suitability assessment without erasing prior history.	UNSET
5. An acceptable nominal capacity or successful functional check shall not establish complete safety or fitness for another duty cycle.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Storage-system baseline; provenance and life history; qualification; monitoring validation; reuse decision.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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43.3 — Hydrogen, fuels and chemical energy

Source: AF-AST-STD-001 / FIRST EDITION, p. 65; exact source subclause 43.3.

1. The assurance case shall identify material compatibility, containment, supply quality, contamination, detection, protective isolation and emergency interfaces appropriate to the actual architecture.	UNSET
2. Supply-chain and ground-service responsibilities shall be explicit.	UNSET
3. Technical interchangeability shall be separately demonstrated from a sustainability or provenance claim.	UNSET
4. The organisation shall maintain current specialist procedures for hazardous work and verify the competence and permissions of actual performers.	UNSET
5. This standard does not prescribe fuel formulations, operating pressures or hazardous handling instructions.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Compatibility and containment basis; supply-quality evidence; competent authorised procedures; separate environmental claims.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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43.4 — Propulsion and rotating equipment

Source: AF-AST-STD-001 / FIRST EDITION, p. 65; exact source subclause 43.4.

1. Propulsion and rotating machinery shall have controlled requirements for operating envelope, duty, life, materials, balance, lubrication, thermal behaviour and protection as relevant.	UNSET
2. Critical parts and process histories shall remain traceable.	UNSET
3. Changes to speed, load, controls, materials or installation shall be reviewed against qualification and life evidence.	UNSET
4. The organisation shall distinguish a development performance result from acceptance of a delivered configuration.	UNSET
5. This clause sets evidence and responsibility requirements rather than design parameters or performance optimisation instructions.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Duty and envelope basis; critical-part genealogy; qualification and acceptance; change and life-management records.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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43.5 — Ground support and emergency interfaces

Source: AF-AST-STD-001 / FIRST EDITION, p. 66; exact source subclause 43.5.

1. Ground energy delivery, charging or fuelling equipment shall be compatible with the supported system and maintained in the verified configuration.	UNSET
2. Handover shall include relevant limitations, protective actions and incident information.	UNSET
3. The organisation shall evaluate common utilities, communication dependencies and restoration after interruption.	UNSET
4. Emergency arrangements shall be exercised safely with the actual responsible parties.	UNSET
5. Availability of energy or a connected interface alone shall not establish suitability for a particular aircraft, vehicle or space system.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Ground-system compatibility; service capability; protective-function checks; emergency and restoration evidence.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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43.6 — Qualification, change and release

Source: AF-AST-STD-001 / FIRST EDITION, p. 66; exact source subclause 43.6.

1. The qualification dossier shall reconcile system requirements, component evidence, integrated behaviour, material histories, test limitations and support capability.	UNSET
2. Essential unresolved hazards or invalid evidence shall block the dependent positive decision.	UNSET
3. After a protective event, anomaly or material change, the organisation shall review affected articles and earlier conclusions.	UNSET
4. Resumption requires actual technical acceptance.	UNSET
5. An ASTRA status or a completed commercial delivery shall not substitute for the authorised release required for the specific energy system or operation.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Complete qualification dossier; independent review; anomaly impact; resumption and release authority.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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44 — Software, programmable hardware and digital engineering

44.1 — Lifecycle and architectural assurance

Source: AF-AST-STD-001 / FIRST EDITION, p. 66; exact source subclause 44.1.

1. The organisation shall define requirements, architecture, implementation, integration, verification, release, maintenance and retirement for software and programmable hardware.	UNSET
2. Assurance depth and independence shall be matched to consequence and actual obligations.	UNSET
3. Architecture shall address interfaces, timing, resource limits, partitioning, fault containment and recovery where relevant.	UNSET
4. The absence of physical wear shall not be used to dismiss systematic defects, configuration errors, data corruption or environmental change.	UNSET
5. Purchased artefacts shall remain within the same assigned assurance responsibility.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Digital lifecycle plan; allocated requirements; architecture and consequence review; supplier responsibilities.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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44.2 — Source, build and loaded configuration

Source: AF-AST-STD-001 / FIRST EDITION, p. 66; exact source subclause 44.2.

1. Source, generated code, logic, configuration, tools, dependencies and build instructions shall have controlled identities and attributable changes.	UNSET
2. The released artefact shall be linked to the reviewed baseline and the actual loaded target.	UNSET
3. Reproducibility shall be demonstrated where necessary for the intended assurance claim.	UNSET
4. Unapproved dependencies and embedded secrets shall be controlled.	UNSET
5. A software version label alone shall not establish which settings, data, model weights or external services influenced the delivered behaviour.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Source and review records; build/dependency manifest; artefact identity; loaded-configuration verification.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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44.3 — Verification and target representativeness

Source: AF-AST-STD-001 / FIRST EDITION, p. 67; exact source subclause 44.3.

1. Verification shall address requirements, interfaces, boundaries, invalid inputs, timing, resource exhaustion, failure handling and regression.	UNSET
2. Coverage criteria shall be justified by the technical basis rather than an unexplained universal percentage.	UNSET
3. Differences between host, simulated and deployed execution shall be assessed.	UNSET
4. Uncovered behaviour, unresolved anomalies and tool limitations shall remain visible.	UNSET
5. Passing tests shall not establish completeness when the test set omits an essential condition or was not executed on a representative target.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Verification plan; traced test results; coverage and target-difference analysis; anomaly disposition.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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44.4 — Tool and generated-output reliance

Source: AF-AST-STD-001 / FIRST EDITION, p. 67; exact source subclause 44.4.

1. Tools whose failure can create or conceal a defect shall be assessed for intended use, consequence and independent detection.	UNSET
2. Validation shall include known-answer, boundary, missing-input and prohibited-state cases.	UNSET
3. Generated calculations, code, technical statements and references shall receive competent verification before becoming controlled evidence.	UNSET
4. The organisation shall prevent unauthorised disclosure to external services.	UNSET
5. Neither successful tool execution nor a convincing generated explanation establishes the truth of the input, physical model or engineering conclusion.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Tool-risk and validation record; verified generated outputs; access controls; accountable technical approval.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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44.5 — Release and update integrity

Source: AF-AST-STD-001 / FIRST EDITION, p. 67; exact source subclause 44.5.

1. A release shall identify approved functionality, configuration, dependencies, unresolved limitations, installation conditions and support obligations.	UNSET
2. Updates shall verify origin, integrity, compatibility and intended target before use.	UNSET
3. Interruption, failed installation, rollback and restoration shall be evaluated for the actual architecture.	UNSET
4. A security fix shall also be assessed for effects on timing, safety and qualification.	UNSET
5. The organisation shall not assume that changing a version number closes the original defect or retrospectively validates affected earlier outputs.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Release and update manifest; compatibility review; interrupted-update tests; rollback limits; affected-output decisions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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44.6 — Long-term support and digital retirement

Source: AF-AST-STD-001 / FIRST EDITION, p. 67; exact source subclause 44.6.

1. Long-life digital systems shall have a plan to preserve source or equivalent support access, build environments, licences, technical knowledge and records necessary for maintenance.	UNSET
2. Dependence on a cloud service or supplier shall be assessed before commitment.	UNSET
3. Migration, replacement or emulation shall preserve required behaviour and evidence meaning.	UNSET
4. Retirement shall address data custody, residual vulnerabilities, user notification and prevention of unauthorised reuse.	UNSET
5. Cryptographic signing alone shall not guarantee permanent readability or technical validity.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Support and obsolescence plan; access arrangements; migration tests; retirement and record-custody decisions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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45 — Artificial intelligence, autonomy and human authority

45.1 — Intended use and prohibited use

Source: AF-AST-STD-001 / FIRST EDITION, p. 67; exact source subclause 45.1.

1. Each AI use shall have an accountable owner, intended purpose, operational domain, affected decisions, permitted authority and prohibited applications.	UNSET
2. The organisation shall examine foreseeable harms, security exposure, human limitations and whether a simpler, more verifiable method can meet the need.	UNSET
3. Development and experimental uses shall be separated from released operational use.	UNSET
4. A vendor's capability claim or a benchmark result shall not establish the suitability of the deployed system for a high-consequence application.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. AI use-case register; alternatives and consequence review; domain and authority limits; release boundary.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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45.2 — Data provenance and evaluation independence

Source: AF-AST-STD-001 / FIRST EDITION, p. 68; exact source subclause 45.2.

1. Datasets shall retain collection sources, rights, versions, labelling methods, relevant populations, operating conditions and known limitations.	UNSET
2. Training, tuning and evaluation partitions shall prevent leakage or unjustified overlap.	UNSET
3. The organisation shall preserve difficult, rare and adverse conditions needed for the intended use.	UNSET
4. Synthetic data shall be identified and its representativeness justified.	UNSET
5. A large dataset or overall accuracy score shall not establish coverage of a materially different population, environment or critical failure scenario.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Dataset manifest; partition and labelling controls; scenario coverage; synthetic-data limitations; independent evaluation design.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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45.3 — Performance and uncertainty

Source: AF-AST-STD-001 / FIRST EDITION, p. 68; exact source subclause 45.3.

1. Acceptance criteria shall be fixed before evaluation and define relevant errors, denominators, exposure, uncertainty and essential protective conditions.	UNSET
2. Results shall be examined by meaningful operating condition or subgroup rather than only in aggregate.	UNSET
3. False acceptance, missed detection, unavailable output and indeterminate behaviour shall be distinguishable.	UNSET
4. A model confidence score is not automatically a calibrated probability of correctness or a probability of safe operation.	UNSET
5. Material evidence gaps shall prevent the dependent positive conclusion.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Prospective performance criteria; stratified results; uncertainty and calibration review where relevant; essential-failure record.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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45.4 — Human oversight and safe fallback

Source: AF-AST-STD-001 / FIRST EDITION, p. 68; exact source subclause 45.4.

1. The organisation shall demonstrate that responsible people have sufficient information, time, competence and technical ability to intervene.	UNSET
2. Fallback shall be feasible in the actual operating environment and shall not rely on a failed common resource without justification.	UNSET
3. Invalid, missing, adversarial or out-of-domain inputs shall be considered under the approved threat and hazard model.	UNSET
4. A nominal manual-override button or requirement to review every result shall not count as an effective control without representative evidence.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Oversight task analysis; intervention and fallback tests; abnormal-input response; validated operating restrictions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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45.5 — Release, drift and bounded adaptation

Source: AF-AST-STD-001 / FIRST EDITION, p. 68; exact source subclause 45.5.

1. Model weights, preprocessing, dependencies, thresholds, sensor configuration and deployment conditions shall form an identifiable released baseline.	UNSET
2. Monitoring shall define relevant drift, changed exposure, failure indicators and accountable response.	UNSET
3. Adaptation outside the approved envelope requires renewed impact review and verification before reliance.	UNSET
4. The organisation shall retain earlier versions and explain the validity of previous conclusions after a change.	UNSET
5. An autonomous improvement claim shall not remove the need to demonstrate continued fulfilment of essential requirements.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Model release card; drift and response plan; adaptation boundary; change approvals; retained historical baselines.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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45.6 — Assurance decisions remain attributable

Source: AF-AST-STD-001 / FIRST EDITION, p. 68; exact source subclause 45.6.

1. AI may support search, document review, classification and anomaly detection within validated limitations.	UNSET
2. It shall not independently grant, renew, suspend or restore an ASTRA outcome.	UNSET
3. The authorised decision maker shall have access to verifiable source evidence, understand material limitations and record the reasoned decision.	UNSET
4. Generated transcripts, images or observations shall not be presented as authentic events.	UNSET
5. Independent reviewers shall challenge automation bias and the risk of several tools repeating the same unsupported source.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Approved decision-support use; source verification; human review and decision; generated-content identification; independence checks.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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46 — Digital twins, simulation and model credibility

46.1 — Decision purpose and model authority

Source: AF-AST-STD-001 / FIRST EDITION, p. 69; exact source subclause 46.1.

1. Every relied-upon model shall identify its owner, decision purpose, physical or operational target, version, inputs, outputs and authorised use boundary.	UNSET
2. The organisation shall distinguish an illustrative model, an engineering prediction, a synchronised digital twin and an acceptance model.	UNSET
3. Visual realism or a common data format shall not establish technical credibility.	UNSET
4. A model validated for one output or range shall not automatically support a different decision, configuration or environment.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Model identity and purpose; authority and use limits; target/configuration association; versioned assumptions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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46.2 — Verification, validation and uncertainty

Source: AF-AST-STD-001 / FIRST EDITION, p. 69; exact source subclause 46.2.

1. The organisation shall verify the implementation and validate the model against relevant observations for the claimed use.	UNSET
2. It shall evaluate input quality, numerical effects, calibration, sensitivity, dependence and uncertainty as appropriate.	UNSET
3. Calibration and validation evidence shall be distinguishable.	UNSET
4. Material discrepancy shall be investigated rather than concealed through repeated tuning to the same evidence.	UNSET
5. The final conclusion shall state the limits of the demonstrated domain and the consequences of relying on extrapolation.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Verification and validation plan; independent comparison data; sensitivity and uncertainty; discrepancy and extrapolation review.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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46.3 — Twin synchronisation and stale state

Source: AF-AST-STD-001 / FIRST EDITION, p. 69; exact source subclause 46.3.

1. A digital twin shall maintain a traceable association with the actual asset and identify the source and age of updates.	UNSET
2. The system shall detect relevant missing, stale, inconsistent or wrong-configuration information.	UNSET
3. Maintenance and replacement shall update both physical and model records without erasing prior states.	UNSET
4. The organisation shall define what decisions remain permissible when synchronisation is lost.	UNSET
5. A visually current dashboard shall not be treated as proof that the underlying configuration is current.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Asset-twin identity; update and timestamp controls; stale-state response; configuration reconciliation.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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46.4 — Replacement or reduction of physical work

Source: AF-AST-STD-001 / FIRST EDITION, p. 69; exact source subclause 46.4.

1. Where modelling replaces or reduces physical testing, inspection or practical observation, the organisation shall provide a prospective equivalence argument.	UNSET
2. It shall address failure mechanisms, validated domain, uncertainty, independent review and the material properties or behaviours that remain unobserved.	UNSET
3. The actual technical and legal obligations shall be checked before removal of a required activity.	UNSET
4. Cost, speed or model convenience alone shall not justify a reduction in necessary evidence.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Test-replacement rationale; validated equivalence; residual physical evidence; approval and restrictions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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46.5 — Model-based maintenance and remaining life

Source: AF-AST-STD-001 / FIRST EDITION, p. 69; exact source subclause 46.5.

1. A predictive or remaining-life output shall identify the asset history, degradation mechanism, observable inputs, model assumptions and uncertainty.	UNSET
2. The organisation shall validate the output for the intended maintenance decision and retain mandatory inspection or life-limit obligations.	UNSET
3. Absence of an alert shall not establish integrity where the model cannot detect the relevant mechanism.	UNSET
4. A new duty, repair, missing history or changed sensor shall trigger reassessment before the model supports an extended use decision.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Asset-history linkage; degradation and model validity; uncertainty; interval/life decision; changed-duty review.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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46.6 — Reproducibility and independent access

Source: AF-AST-STD-001 / FIRST EDITION, p. 70; exact source subclause 46.6.

1. The evidence dossier shall retain sufficient model definition, input data, parameter settings, tool version and execution records to reconstruct the conclusion.	UNSET
2. Proprietary restrictions shall be managed through authorised access without accepting an inaccessible essential model by reputation.	UNSET
3. Independent review shall address the engineering relevance as well as computational correctness.	UNSET
4. Export and migration shall preserve units, field meaning, relationships and known limitations.	UNSET
5. A successful file transfer shall not establish successful model transfer.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Reproducible execution package; lawful independent access; engineering review; semantic migration checks.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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47 — Cyber resilience, operational technology and secure updates

47.1 — Safety-security dependency analysis

Source: AF-AST-STD-001 / FIRST EDITION, p. 70; exact source subclause 47.1.

1. The organisation shall identify assets, trust boundaries, suppliers, users and interfaces whose loss of integrity, availability, authenticity or confidentiality can affect assured outcomes.	UNSET
2. Threat and safety analyses shall be coordinated where protective measures can interfere with emergency or degraded operation.	UNSET
3. Engineering records, machine programmes, maintenance data and product updates shall be included, not only office systems.	UNSET
4. Assumptions about shared infrastructure and external services shall have named owners and demonstrable controls.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Asset and trust-boundary inventory; joint hazard/threat review; dependency ownership; approved protective controls.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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47.2 — Identity, access and privileged actions

Source: AF-AST-STD-001 / FIRST EDITION, p. 70; exact source subclause 47.2.

1. Access shall follow verified identities, necessary privileges and actual roles.	UNSET
2. Human, machine and service identities shall be controlled throughout their lifecycle.	UNSET
3. Privileged release, maintenance and status actions shall have authentication and attribution appropriate to consequence.	UNSET
4. Emergency access shall be bounded, logged and reviewed.	UNSET
5. Shared credentials shall not obscure who performed an action.	UNSET
6. Changes in employment, supplier access or responsibilities shall promptly trigger the relevant permission review and removal.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Access and role matrix; identity lifecycle; privileged approvals; emergency logs; event-time authority checks.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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47.3 — Supply-chain and dependency integrity

Source: AF-AST-STD-001 / FIRST EDITION, p. 70; exact source subclause 47.3.

1. The organisation shall maintain a relevant inventory of digital components and dependencies, their provenance, supported versions and channels for vulnerability information.	UNSET
2. Disposition shall consider actual exposure, exploitability, safety consequences and available protection.	UNSET
3. An inventory is not proof that every component is secure.	UNSET
4. Supplier changes, unsupported software and inaccessible update mechanisms shall trigger technical and continuity review.	UNSET
5. The organisation shall identify the actual party responsible for remediation and for informing affected users.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Dependency inventory; provenance; vulnerability assessment; support commitments; remediation and notification records.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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47.4 — Connected production and operational technology

Source: AF-AST-STD-001 / FIRST EDITION, p. 71; exact source subclause 47.4.

1. Connected equipment shall protect authorised machine programmes, process parameters, monitoring data and essential functions.	UNSET
2. Segmentation, access, backup, monitoring and degraded operation shall be selected according to the actual process risk.	UNSET
3. Patches and security tools shall be assessed for compatibility with timing, safety and production qualification.	UNSET
4. When immediate change is inappropriate, a documented compensating-control decision shall have an owner, limits and review.	UNSET
5. Operational continuity shall not excuse unbounded unsupported risk acceptance.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Operational-technology architecture; authorised configuration; patch review; compensating controls; restoration tests.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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47.5 — Update trust and cryptographic transition

Source: AF-AST-STD-001 / FIRST EDITION, p. 71; exact source subclause 47.5.

1. Updates shall verify origin, integrity, authority, compatibility and intended target configuration.	UNSET
2. The organisation shall control signing and other trust dependencies, key custody, expiry, revocation and migration.	UNSET
3. A future algorithm transition shall be planned according to product life and actual risk; this standard does not declare a particular algorithm universally suitable.	UNSET
4. Recovery and rollback shall not silently reintroduce an unacceptable vulnerability.	UNSET
5. Evidence-preservation needs shall be considered separately from live-system authentication.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Update trust model; key and certificate governance; interruption/rollback tests; migration and archival-validation plan.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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47.6 — Incident recovery and assured return

Source: AF-AST-STD-001 / FIRST EDITION, p. 71; exact source subclause 47.6.

1. Incident handling shall preserve evidence, contain affected use, identify impacted products and decisions, notify responsible parties and control restoration.	UNSET
2. Returning a service to availability shall be separated from verifying its data and configuration integrity.	UNSET
3. Exercises shall test recovery objectives and the meaning of restored records.	UNSET
4. Missing original evidence shall remain a gap in the dependent conclusion.	UNSET
5. An incident closure shall include the actual technical return authority and follow-up actions, not only a completed support ticket.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Incident and affected-output record; integrity checks; recovery exercise; authorised return and continuing actions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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48 — Supply networks, authenticity and obsolescence

48.1 — Critical suppliers and actual performers

Source: AF-AST-STD-001 / FIRST EDITION, p. 71; exact source subclause 48.1.

1. The organisation shall identify suppliers and sub-tier performers according to the technical consequence of their outputs.	UNSET
2. The scope shall record what each party actually performs, where it operates, its competent personnel, process or method capability and necessary evidence access.	UNSET
3. A trading or coordinating organisation shall not claim direct performance of outsourced work.	UNSET
4. Shared ownership, customer nomination or another certificate shall not remove the commissioning organisation's retained acceptance and oversight responsibilities.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Supplier/performance map; criticality; exact capability checks; retained-responsibility and access records.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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48.2 — Flow-down and acknowledgement

Source: AF-AST-STD-001 / FIRST EDITION, p. 71; exact source subclause 48.2.

1. Purchasing and subcontract terms shall transmit relevant specifications, configuration, quality and safety conditions, changes, inspection, evidence, notification and retention duties to the actual level of performance.	UNSET
2. The organisation shall verify acknowledgement and implementation, not only that standard terms were attached to a purchase order.	UNSET
3. Conflicting instructions shall be resolved before dependent work.	UNSET
4. Onward delegation and substitution shall be controlled, with technical acceptance distinct from commercial approval.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Requirement flow-down matrix; sub-tier acknowledgement; actual implementation checks; controlled substitution.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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48.3 — Provenance and counterfeit prevention

Source: AF-AST-STD-001 / FIRST EDITION, p. 72; exact source subclause 48.3.

1. Inputs shall retain verifiable source, lot or serial identity, condition, life status and relevant conformity evidence.	UNSET
2. Suspect, altered or counterfeit items shall be segregated and traced through potentially affected outputs.	UNSET
3. Investigation shall preserve originals and avoid treating suspicion as a final misconduct finding before sufficient review.	UNSET
4. A visually convincing certificate, searchable identifier or supplier logo shall not establish authenticity.	UNSET
5. Source changes and exceptional procurement shall receive risk-based technical review.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Provenance and receipt records; authenticity checks; suspect-item containment; affected-output and investigation history.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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48.4 — Split, merge, logistics and storage

Source: AF-AST-STD-001 / FIRST EDITION, p. 72; exact source subclause 48.4.

1. Material and part identity shall survive split lots, repackaging, kitting, pooling, return and transport.	UNSET
2. Quantities, units, ownership or custody and relevant environmental conditions shall reconcile.	UNSET
3. A quantity balance does not by itself prove correct identity or suitability.	UNSET
4. Shelf life, out-time, damage and transport excursions shall remain attached to the actual items.	UNSET
5. Customer-selected or supplied material shall be clearly identified, with limitations on the organisation's independent source claims.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Movement and genealogy record; quantity reconciliation; storage/transport conditions; excursion and eligibility decisions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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48.5 — Diminishing sources and replacement evidence

Source: AF-AST-STD-001 / FIRST EDITION, p. 72; exact source subclause 48.5.

1. The organisation shall plan for unavailable suppliers, obsolete parts, unsupported software and loss of technical knowledge.	UNSET
2. Replacement shall examine function, interfaces, materials, process differences, qualification and life evidence.	UNSET
3. A physically interchangeable part shall not automatically be technically equivalent.	UNSET
4. The review shall define retained evidence and additional demonstration before release.	UNSET
5. Support contracts and access arrangements shall be assessed for actual continuity, including the possibility of provider cessation or inaccessible digital tools.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Obsolescence register; substitution/equivalence argument; additional qualification; support and access plan.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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48.6 — Performance, transfer and exit

Source: AF-AST-STD-001 / FIRST EDITION, p. 72; exact source subclause 48.6.

1. Supplier monitoring shall include adverse results, changes, delivery and technical performance using defined populations and denominators.	UNSET
2. A systemic failure shall trigger review of dependent sources and products, not merely reassignment to a new supplier.	UNSET
3. Transfers shall verify receiving capability and preserve open findings, technical restrictions and historical records.	UNSET
4. Exit shall identify remaining warranties, notifications, record custody and unresolved obligations.	UNSET
5. Changing a supplier or issuer shall not make unsupported evidence valid.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Supplier performance review; systemic extent; transfer acceptance; open-duty and custody records.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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49 — Maintenance, continuing assurance and asset evidence

49.1 — Exact capability before accepting work

Source: AF-AST-STD-001 / FIRST EDITION, p. 72; exact source subclause 49.1.

1. The maintenance organisation shall define the facility or station, aircraft, engine, component or asset family, actual tasks and limitations.	UNSET
2. New capability shall be demonstrated through current technical data, competent authorised people, suitable tools, parts, facilities, inspection and release arrangements.	UNSET
3. An organisation-wide result shall not cover an unassessed station or task.	UNSET
4. Advisory technical support, design work, training and laboratory testing shall retain their separate scope and evidence requirements.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Facility/type/task capability; new-capability dossier; actual permissions; separate service boundaries.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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49.2 — Work planning from the actual asset

Source: AF-AST-STD-001 / FIRST EDITION, p. 73; exact source subclause 49.2.

1. Work packages shall be based on verified identity, configuration, history, applicable life limits and current authorised technical data.	UNSET
2. They shall identify task sequence, inspection independence, required measurements, parts, hold points and completion evidence.	UNSET
3. Ambiguous instructions or incomplete history shall be resolved or explicitly held before dependent use.	UNSET
4. A generic maintenance schedule or a commercially urgent request shall not replace an asset-specific technical and release basis.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Asset baseline; current-data check; task and hold-point plan; resolved-history and instruction gaps.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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49.3 — Execution, interruptions and human factors

Source: AF-AST-STD-001 / FIRST EDITION, p. 73; exact source subclause 49.3.

1. The organisation shall record contemporaneous task performance, actual observations, deviations, rework and independent checks.	UNSET
2. Interrupted work and shift handovers shall retain unfinished conditions, removed protections, tools, parts and next actions.	UNSET
3. Fatigue, workload and communication shall be addressed in the actual work design.	UNSET
4. A later signature shall not make an unobserved step contemporaneous.	UNSET
5. Repeated tests shall retain earlier failures and changed configurations so that the final reviewer can reconstruct the actual work.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Attributable task records; interruption and handover log; independent checks; original and repeated evidence.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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49.4 — Parts eligibility and life history

Source: AF-AST-STD-001 / FIRST EDITION, p. 73; exact source subclause 49.4.

1. Removed and installed parts shall retain origin, condition, life status, prior repair and configuration links.	UNSET
2. Missing history shall not be reset or inferred from a successful bench test.	UNSET
3. Parts recovered from storage or dismantling shall undergo the applicable eligibility process.	UNSET
4. Unserviceable and scrap items shall be controlled against unauthorised re-entry.	UNSET
5. External process or NDT evidence shall match the actual item, method, site and period on which the maintenance decision relies.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Removal/installation genealogy; eligibility review; life and repair record; linked process/test evidence; scrap controls.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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49.5 — Release, restrictions and receiving information

Source: AF-AST-STD-001 / FIRST EDITION, p. 73; exact source subclause 49.5.

1. Final review shall verify completed requirements, independent inspections, authorised repairs or deviations, restored protective features, final configuration and remaining limitations.	UNSET
2. The authorised release function shall act within actual privileges.	UNSET
3. ASTRA recognition shall not replace the maintenance release.	UNSET
4. The receiving party shall obtain information needed for continued operation and support, including restrictions and unresolved duties.	UNSET
5. An invoice, service-completion percentage or portal status shall not be treated as the technical release instrument.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Final technical review; release authority; actual release record; receiving handover and limitations.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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49.6 — Condition monitoring and long-term support

Source: AF-AST-STD-001 / FIRST EDITION, p. 73; exact source subclause 49.6.

1. Reliability analysis, remote diagnosis and predictive maintenance shall use valid data and models with a stated decision boundary.	UNSET
2. Changes in duty, missing history or insufficient detection shall trigger review.	UNSET
3. Mandatory inspections and life limits shall not be removed by a favourable trend without the required technical authority.	UNSET
4. Fleet, lease and provider transitions shall preserve actual configuration and historical restrictions.	UNSET
5. Support service restoration shall include evidence integrity, not only renewed portal availability.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Validated monitoring and analysis; interval/life decisions; asset transition records; support continuity and integrity checks.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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50 — Airports, vertiports and spaceport service integration

50.1 — Site-specific operating baseline

Source: AF-AST-STD-001 / FIRST EDITION, p. 74; exact source subclause 50.1.

1. The operator shall define the actual site, infrastructure, permissions, operating characteristics, users, relevant conditions and responsibilities.	UNSET
2. The baseline shall distinguish conventional aerodromes, heliports, vertiports, spaceport interfaces and shared civil/military use.	UNSET
3. Each materially different activity needs an appropriate technical supplement and competent evaluation before inclusion.	UNSET
4. Group governance may be shared, but each site's delivery capability shall be demonstrated.	UNSET
5. The geographic presence of a tenant shall not place its entire operation inside the airport's ASTRA outcome.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Site and activity baseline; permissions; supplement applicability; operator/tenant boundary.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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50.2 — Infrastructure condition and usable information

Source: AF-AST-STD-001 / FIRST EDITION, p. 74; exact source subclause 50.2.

1. Inspection and defect management shall connect actual airside, terminal, utility and technical-facility conditions to operational information, restrictions, repair and verified restoration.	UNSET
2. Relevant operating periods, adverse weather, peak loads and degraded states shall be considered.	UNSET
3. Current information shall reach the responsible users through controlled interfaces.	UNSET
4. A completed inspection checklist shall not prove that an observed defect was communicated, protected or corrected.	UNSET
5. Necessary site-specific technical thresholds belong to the approved operating basis.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Inspections; defect-to-restriction trace; actual notices; repair and restored-condition evidence.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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50.3 — Construction and operational change

Source: AF-AST-STD-001 / FIRST EDITION, p. 74; exact source subclause 50.3.

1. Changes involving infrastructure, aircraft or vehicle interfaces, equipment, digital services, energy or operating patterns shall undergo integrated impact review before use.	UNSET
2. The review shall address temporary conditions, contractors, cumulative effects and interfaces with ongoing operations.	UNSET
3. Hidden work and protective functions shall be verified before concealment or handover where required.	UNSET
4. Commercial completion of construction shall be separated from technical acceptance and operational readiness of the receiving site.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Change and temporary-condition review; contractor interfaces; commissioning; receiving operational acceptance.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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50.4 — Coordinated emergency and continuity

Source: AF-AST-STD-001 / FIRST EDITION, p. 74; exact source subclause 50.4.

1. The operator shall establish actual arrangements with relevant emergency and continuity providers, including communication, access, equipment, competence and availability.	UNSET
2. Safe exercises shall test coordinated performance and weaknesses, not only participation.	UNSET
3. Dependencies on utilities, digital services and specialist providers shall be examined.	UNSET
4. The ASTRA assessor shall evaluate the evidence of coordination without assuming command of public emergency functions.	UNSET
5. Unavailable essential response capacity shall remain a limitation in the affected scope.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Emergency/continuity responsibilities; availability; exercises; corrective closure; declared limitations.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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50.5 — Passenger, accessibility and service interfaces

Source: AF-AST-STD-001 / FIRST EDITION, p. 74; exact source subclause 50.5.

1. The service system shall define passenger information, accessibility, baggage, public-area condition, sanitation and disruption-recovery duties within the operator's control.	UNSET
2. Measures shall use stated populations, time windows and exclusions without overriding safety priorities.	UNSET
3. Evidence shall include actual delivery under peak and disrupted conditions.	UNSET
4. Outsourced delivery shall retain the actual performer and the operator's coordination duties.	UNSET
5. A service rating shall not imply assessment of every independently operated airline or contractor.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Service and accessibility commitments; representative delivery records; contractor controls; incident and recovery evidence.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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50.6 — Integrated but separate outcomes

Source: AF-AST-STD-001 / FIRST EDITION, p. 75; exact source subclause 50.6.

1. A combined assessment may share identity, governance, selected data and visits after relevance review.	UNSET
2. It shall retain separate technical profiles, local evidence, competence and independent outcomes for site capability, maintenance, handling and environmental statements.	UNSET
3. A common utility or data failure shall trigger review of every dependent scope.	UNSET
4. A favourable environmental result shall not compensate for an operational deficiency, and an airport inventory shall not be presented as the footprint of all flights using the site.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Cross-family evidence map; separate scope decisions; common-failure review; bounded public claims.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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51 — Ground operations, navigation support and network continuity

51.1 — Headquarters and actual station delivery

Source: AF-AST-STD-001 / FIRST EDITION, p. 75; exact source subclause 51.1.

1. The provider shall identify headquarters controls, legal entities, stations, service tracks, actual performers and local variations.	UNSET
2. Each included station shall demonstrate suitable people, instructions, equipment, customer interfaces and permissions.	UNSET
3. Common manuals shall be translated into verified local implementation.	UNSET
4. A network name, booking platform or coordination contract shall not establish direct capability at every location.	UNSET
5. New stations and materially different services shall receive the required assessment before expanded claims are used.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Provider/station/service matrix; local-variation records; actual capability; extension decisions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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51.2 — Turnaround and ground handling

Source: AF-AST-STD-001 / FIRST EDITION, p. 75; exact source subclause 51.2.

1. Declared handling tasks shall have current technical data, competent roles, equipment compatibility, handover rules, hold points and exception reporting.	UNSET
2. Evidence shall represent relevant peak, disrupted and shift-change conditions.	UNSET
3. The provider shall preserve discrepancies and actual task completion rather than infer completion from an aircraft's departure.	UNSET
4. The standard does not supply loading, pushback or de-icing recipes.	UNSET
5. These operations remain governed by their applicable authorised technical procedures and operational responsibilities.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Task and interface plan; personnel authority; actual representative records; exception and receiving acknowledgements.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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51.3 — Cargo, energy and specialist support

Source: AF-AST-STD-001 / FIRST EDITION, p. 75; exact source subclause 51.3.

1. Cargo, mail, fuel, energy, catering, cabin and sanitation services shall maintain the controls appropriate to their actual task.	UNSET
2. Identity, custody, contamination, time or temperature, equipment condition and release interfaces shall remain traceable.	UNSET
3. Hazardous or specialist tasks require relevant competence and permissions.	UNSET
4. A general quality-system result shall not establish every service capability.	UNSET
5. Environmental excursions and source defects shall be connected to affected consignments, deliveries or aircraft and communicated to responsible recipients.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Exact service scope; custody and condition; specialist authority; affected-delivery and notification records.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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51.4 — Flight and navigation-support data

Source: AF-AST-STD-001 / FIRST EDITION, p. 75; exact source subclause 51.4.

1. Specialist support shall define data origin, transformation, units, reference systems, timestamps, timeliness, integrity and the user's permitted reliance.	UNSET
2. Wrong, missing, late and superseded information shall be included in validation.	UNSET
3. The organisation shall distinguish advice, data provision and actual operational authority.	UNSET
4. Availability alone shall not demonstrate correctness.	UNSET
5. Necessary dedicated criteria and permissions shall exist before a communications, navigation, surveillance or meteorological-support claim is admitted to the active scope.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Specialist profile; source-to-user data trace; timing and error-handling validation; actual permissions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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51.5 — Digital platforms and protected security services

Source: AF-AST-STD-001 / FIRST EDITION, p. 76; exact source subclause 51.5.

1. Digital service providers shall identify deployed configurations, dependencies, users, data rights, security, fallback and termination arrangements.	UNSET
2. Integrated third parties retain separate responsibility for their outputs.	UNSET
3. Specialist security evaluation shall protect sensitive operational information while enabling sufficient authorised evidence review.	UNSET
4. Neither platform connectivity nor an ASTRA credential transfers public security powers.	UNSET
5. An unavailable essential capability shall be held or excluded, not accepted on a broad corporate declaration.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Platform/service boundary; dependency and access controls; validated fallback; protected specialist review; precise claims.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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51.6 — Shared failure and service restoration

Source: AF-AST-STD-001 / FIRST EDITION, p. 76; exact source subclause 51.6.

1. Network monitoring shall use defined incident, delay, damage, complaint and control-performance populations.	UNSET
2. A headquarters or shared-platform failure shall be traced across dependent stations.	UNSET
3. Restoration shall verify data and configuration integrity, local readiness, provider interfaces and receiving acknowledgement.	UNSET
4. Deleting an affected station from a dashboard shall not erase the historical failure or its systemic implications.	UNSET
5. Service availability and ASTRA status shall remain separately controlled by the relevant technical and independent authorities.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Network indicators; common-cause extent; local restoration checks; truthful history; separate service and status decisions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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52 — Education, training and workforce knowledge

52.1 — Programme and learner boundaries

Source: AF-AST-STD-001 / FIRST EDITION, p. 76; exact source subclause 52.1.

1. The provider shall identify the actual programme, discipline, level, curriculum version, completion routes, delivery modes, campuses and partners.	UNSET
2. The intended educational or professional purpose shall be coherent with assessed outcomes.	UNSET
3. A recognised programme shall not imply recognition of every programme in the institution or authority for every graduate to perform restricted work.	UNSET
4. Short courses, vocational pathways, degree programmes and continuing development shall retain distinct boundaries and appropriate evidence requirements.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Programme profile; lawful award basis; delivery map; completion routes; accurate learner information.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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52.2 — Future skills with demonstrated outcomes

Source: AF-AST-STD-001 / FIRST EDITION, p. 76; exact source subclause 52.2.

1. The curriculum shall address the knowledge and practical abilities required for its actual discipline and level, including relevant digital, analytical, systems, ethical and communication responsibilities.	UNSET
2. Future-technology content shall distinguish awareness from demonstrated practical capability.	UNSET
3. The provider shall map outcomes to instruction, assessment, direct learner evidence and accountable academic review.	UNSET
4. A fashionable topic, course title, contact-hour total or attendance record shall not establish attainment of a defined technical skill.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Outcome-curriculum-assessment map; level and workload rationale; authentic learner work; reviewed future-skill claims.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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52.3 — Practical learning and assessment integrity

Source: AF-AST-STD-001 / FIRST EDITION, p. 76; exact source subclause 52.3.

1. Practical work shall use suitable equipment, current methods, safe supervision and representative tasks.	UNSET
2. Simulation or remote laboratories shall have a justified educational role and shall not replace essential hands-on competence without a valid basis.	UNSET
3. Assessment shall establish learner identity and authorship, including when AI tools are permitted.	UNSET
4. Rubrics, essential steps, moderation and resit rules shall be fixed in advance.	UNSET
5. Failed essential skills shall not be averaged into a completion decision.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Practical-task and safety plan; assessment blueprint; authenticity checks; observed essential steps; preserved attempts.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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52.4 — Instructors, placements and technical currency

Source: AF-AST-STD-001 / FIRST EDITION, p. 77; exact source subclause 52.4.

1. Educators, laboratory staff and placement supervisors shall demonstrate relevant knowledge, teaching and assessment competence and current practice appropriate to their task.	UNSET
2. Workload and replacement arrangements shall sustain delivery.	UNSET
3. Industry placements shall identify the real supervisor, permitted tasks, safety controls and evidence of the learner's contribution.	UNSET
4. An employer endorsement or instructor title alone shall not demonstrate either learner attainment or the supervisor's competence in every specialist domain.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Staff role and currency records; placement agreement; supervision; direct learner contribution; continuity plan.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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52.5 — Attainment, improvement and learner protection

Source: AF-AST-STD-001 / FIRST EDITION, p. 77; exact source subclause 52.5.

1. Programme conclusions shall rely on authentic delivery and assessment evidence for every claimed completion route.	UNSET
2. Where sufficient completed evidence is absent, only the permitted developmental readiness result shall be used.	UNSET
3. Improvement shall connect identified weakness, educational cause, action and subsequent comparable outcomes.	UNSET
4. Changes, closure or loss of status shall protect learner records, communication and teach-out or transfer.	UNSET
5. Survey satisfaction and a favourable cohort average shall not replace direct evidence of essential attainment.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Route/cohort attainment; improvement follow-up; readiness limitations; teach-out and historical-record protection.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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53 — Sustainability, climate and lifecycle stewardship

53.1 — Declared lifecycle and material effects

Source: AF-AST-STD-001 / FIRST EDITION, p. 77; exact source subclause 53.1.

1. The organisation shall define the product, asset, service or institutional boundary, functional unit, period and environmental responsibilities.	UNSET
2. It shall identify material upstream, operational and end-of-life effects relevant to that boundary.	UNSET
3. Data gaps, allocation, estimates and exclusions shall be transparent.	UNSET
4. A partial operational inventory shall not be presented as a full lifecycle footprint.	UNSET
5. Technical safety and quality requirements shall remain active during environmental improvement; an unassessed risk shall not be traded for a favourable metric.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Lifecycle boundary; materiality and category rationale; technical/environmental interface review; disclosed gaps.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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53.2 — Inventory and comparable reduction

Source: AF-AST-STD-001 / FIRST EDITION, p. 77; exact source subclause 53.2.

1. Quantification shall retain actual activity data, suitable factors, units, versions, source quality, corrections and relevant uncertainty.	UNSET
2. Comparisons shall use a coherent baseline and address structural, methodological and output-mix changes.	UNSET
3. Absolute and intensity changes shall be reported separately where material.	UNSET
4. Gross emissions, direct reductions, removals, compensation and avoided emissions shall not be merged into an unexplained net result.	UNSET
5. Numerical examples in this standard are synthetic and are not real-world factors.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Inventory model; data and factor provenance; baseline/recalculation; separated quantities; uncertainty and claim review.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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53.3 — Energy attributes and circular resources

Source: AF-AST-STD-001 / FIRST EDITION, p. 77; exact source subclause 53.3.

1. The organisation shall distinguish physical material or energy delivery from contractual attributes and identify ownership, eligibility, allocation and cancellation where applicable.	UNSET
2. Exclusive claims shall not be allocated twice.	UNSET
3. Material recovery, reuse, repair and circularity measures shall have defined flows and denominators.	UNSET
4. Internal recirculation shall not be counted repeatedly as new recovered output.	UNSET
5. Reused safety-critical inputs shall retain identity, life history and technical suitability independently of an environmental benefit.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Custody/attribute ledger; quantity and exclusive-claim checks; material-flow model; technical reuse eligibility.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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53.4 — Local effects and climate adaptation

Source: AF-AST-STD-001 / FIRST EDITION, p. 78; exact source subclause 53.4.

1. Local air, noise, water, spills, biodiversity and climate-resilience conclusions shall use relevant locations, periods, scenarios, receptors, methods and uncertainty.	UNSET
2. Seasonal and operating variation shall be considered.	UNSET
3. The organisation shall distinguish a scenario assessment from proof of performance under every future condition.	UNSET
4. Adaptation decisions shall identify resources, protective measures, dependencies and verification.	UNSET
5. Changes in infrastructure or material evidence shall trigger review rather than reliance on a permanently unchanged resilience label.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Local-environment methods; scenario and vulnerability basis; adaptation actions; protective verification; review triggers.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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53.5 — Statements and independent conclusions

Source: AF-AST-STD-001 / FIRST EDITION, p. 78; exact source subclause 53.5.

1. Capability recognition, historical verification, prospective validation and verifier accreditation shall remain distinct.	UNSET
2. Each engagement shall define the statement, criteria, intended users, assurance form, materiality and reporting boundary before substantive work.	UNSET
3. Errors, omissions, bias and residual uncertainty shall be evaluated independently.	UNSET
4. A favourable transition-plan review is not an achieved reduction.	UNSET
5. Later evidence invalidating a historical statement shall lead to appropriate correction and recipient communication without rewriting the original decision history.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Engagement terms; statement versions; misstatement and limitation record; independent conclusion; correction and notices.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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54 — Safety integration, emergencies and occurrence learning

54.1 — Hazards, assumptions and essential controls

Source: AF-AST-STD-001 / FIRST EDITION, p. 78; exact source subclause 54.1.

1. Hazard analysis shall identify credible consequences, relevant exposure, uncertainty, common causes and human or organisational dependencies.	UNSET
2. The organisation shall select methods appropriate to the system and maintain the analysis as the configuration and context evolve.	UNSET
3. Essential protective controls shall be identifiable and verified.	UNSET
4. Multiplying ordinal severity and likelihood categories shall not be presented as a physical probability or used to hide an unassessed severe consequence.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Hazard log; analysis basis; essential-control map; uncertainty and independent technical challenge.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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54.2 — Stop authority and escalation

Source: AF-AST-STD-001 / FIRST EDITION, p. 78; exact source subclause 54.2.

1. Responsible personnel shall be able to stop or restrict affected work when an essential protective condition is absent or credible serious concern arises.	UNSET
2. The organisation shall define who can authorise temporary protection, technical restart and independent status decisions.	UNSET
3. Those roles shall not be confused.	UNSET
4. Urgent action shall preserve evidence and comply with the existing notification clocks in Clause 14 and Annex H.	UNSET
5. Debate about finding classification shall not delay necessary protection.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Stop and duty mandates; actual concern/action times; protection; separate restart and status records.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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54.3 — Emergency capability and exercises

Source: AF-AST-STD-001 / FIRST EDITION, p. 79; exact source subclause 54.3.

1. Emergency arrangements shall identify actual people, communication, equipment, access, external interfaces and limitations.	UNSET
2. Exercises shall be authorised, safe and representative of the capability being claimed.	UNSET
3. The organisation shall distinguish discussion-based review from demonstrated operational coordination.	UNSET
4. Findings shall have accountable correction and follow-up.	UNSET
5. A planned exercise or signed service agreement shall not count as completed evidence of capability where essential resources were not available or could not perform their assigned role.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Emergency plan; resource availability; exercise design and actual observations; verified corrective action.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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54.4 — Occurrence, escape and affected population

Source: AF-AST-STD-001 / FIRST EDITION, p. 79; exact source subclause 54.4.

1. Investigation shall examine both why an event occurred and why existing controls failed to prevent or detect it.	UNSET
2. The organisation shall preserve original evidence, competing explanations and uncertainty.	UNSET
3. Population tracing shall include already delivered products, services, reports and decisions that share relevant causes.	UNSET
4. Replacing a person or issuing training shall not alone close a systemic weakness in work design, resources, interfaces or measurement.	UNSET
5. Later correction shall not be backdated to legitimise earlier unsupported work.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Occurrence/escape analysis; population and dependency trace; tested causes; historical impact and recipient action.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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54.5 — Learning and protected reporting

Source: AF-AST-STD-001 / FIRST EDITION, p. 79; exact source subclause 54.5.

1. Reporting routes shall protect good-faith concerns and preserve fair response to allegations.	UNSET
2. The organisation shall evaluate weak signals, near misses, repeated local failures and suppressive incentives without equating allegation with established misconduct.	UNSET
3. Lessons shall be translated into verified changes in methods, interfaces, training or assurance criteria through the appropriate controlled process.	UNSET
4. A declining report count shall not be assumed to demonstrate improvement where reporting access or culture has deteriorated.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Protected intake; impartial investigation; reporting-quality review; implemented and verified lessons.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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55 — Reliability, availability, maintainability and asset life

55.1 — Define the claim before the calculation

Source: AF-AST-STD-001 / FIRST EDITION, p. 79; exact source subclause 55.1.

1. Every quantitative reliability or availability claim shall identify the population, configuration, operating domain, exposure, duration, failure definition and observation boundary.	UNSET
2. The organisation shall distinguish predictions, simulations, demonstrations and field observations.	UNSET
3. Availability shall state which downtime categories are included.	UNSET
4. A percentage without its denominator, conditions and exclusions shall not be used as acceptance evidence.	UNSET
5. A changed mission duration or duty shall trigger review of the claim and supporting assumptions.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Metric dictionary; configuration/population; exposure and failure definitions; actual model or observation basis.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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55.2 — Failure mechanisms and dependencies

Source: AF-AST-STD-001 / FIRST EDITION, p. 79; exact source subclause 55.2.

1. The analysis shall consider applicable degradation, common causes, dormant failures, maintenance-induced defects, shared software and external-service dependencies.	UNSET
2. Independence assumptions shall be justified rather than selected for convenient arithmetic.	UNSET
3. The organisation shall identify mechanisms not represented by a chosen statistical model and provide complementary engineering evidence.	UNSET
4. Demonstrating each component independently shall not establish system reliability when common resources or interfaces can defeat several functions simultaneously.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Mechanism and dependency analysis; model assumptions; complementary verification; common-cause review.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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55.3 — Demonstration and inference limitations

Source: AF-AST-STD-001 / FIRST EDITION, p. 80; exact source subclause 55.3.

1. Demonstration plans shall establish prospective acceptance rules, representativeness, sample selection, confidence and treatment of incomplete or failed trials.	UNSET
2. Rare-event claims shall not be inferred from insufficient routine testing without a defensible statistical and engineering basis.	UNSET
3. Repeated or dependent observations shall not be counted as independent opportunities without justification.	UNSET
4. Changes to the article or test conditions shall remain visible.	UNSET
5. Annex AG illustrates calculation logic using labelled synthetic data only.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Demonstration plan; actual exposure and failures; confidence and dependence basis; qualified inference.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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55.4 — Maintainability and support conditions

Source: AF-AST-STD-001 / FIRST EDITION, p. 80; exact source subclause 55.4.

1. Maintainability shall consider diagnostic capability, access, tools, spares, skills, human error, restoration checks and relevant logistics.	UNSET
2. Timing results shall identify start and stop definitions and whether administrative or waiting time is excluded.	UNSET
3. A rapid repair under laboratory conditions shall not be presented as operational support performance without a justified comparison.	UNSET
4. The organisation shall demonstrate that protective features and the released configuration are restored after maintenance, not merely that the equipment starts again.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Support and repair task analysis; representative time observations; restoration checks; stated exclusions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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55.5 — Life decisions and uncertainty

Source: AF-AST-STD-001 / FIRST EDITION, p. 80; exact source subclause 55.5.

1. Life-limited and condition-dependent assets shall retain actual service, storage, repair and relevant exposure histories.	UNSET
2. Remaining-life conclusions shall identify the technical model, inspection capability, uncertainty and responsible authority.	UNSET
3. Missing history shall not be reset to zero, and a passed functional test shall not erase an unresolved degradation mechanism.	UNSET
4. Changes in duty, repair or material shall trigger review.	UNSET
5. ASTRA duration and surveillance dates do not extend the technical life of an item.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Life/exposure record; valid condition evidence; model and uncertainty; actual life decision and restrictions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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56 — Digital registry, evidence relationships and portability

56.1 — Distinct entities and authoritative records

Source: AF-AST-STD-001 / FIRST EDITION, p. 80; exact source subclause 56.1.

1. The information model shall distinguish organisations, people, profiles, applications, assignments, evidence, findings, decisions, credentials, permissions, appeals and status events.	UNSET
2. Each record shall have a unique identity, version, accountable origin, scope and relevant time basis.	UNSET
3. A case may support several outcomes, but the conclusion and history of each outcome shall remain separate.	UNSET
4. Copies and public projections shall identify their relationship to the authoritative source rather than become competing unexplained masters.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Entity dictionary; source-of-record map; relationships; scope and time conventions; controlled projections.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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56.2 — Evidence states and requirement conclusions

Source: AF-AST-STD-001 / FIRST EDITION, p. 80; exact source subclause 56.2.

1. Evidence receipt, review, purpose-specific acceptance, rejection, supersession and unavailability shall remain distinct from conformity conclusions.	UNSET
2. A missing essential source shall not become non-applicable because a database field requires a value.	UNSET
3. Accepted evidence shall state the requirement and configuration it supports and its limitations.	UNSET
4. An imported identifier shall not be presumed to refer to the correct object or version .	UNSET
5. Contradictory evidence shall remain visible through the independent review process.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Evidence-purpose links; controlled state dictionary; missing/wrong-version checks; reasoned requirement conclusions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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56.3 — Decision and publication safeguards

Source: AF-AST-STD-001 / FIRST EDITION, p. 81; exact source subclause 56.3.

1. The workflow shall test valid scope, complete evidence, fulfilled criteria, closed findings, current competence, case independence and actual authority before publishing a positive outcome.	UNSET
2. Where a three-person panel is required, all eligible participation and votes shall be recorded.	UNSET
3. An automated check may flag or block a proposed instruction but shall not create the independent technical decision.	UNSET
4. Public information shall match the authorised decision and preserve restrictions, expiry and historical gaps.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Decision preflight; authentic decision instrument; panel record where required; public/private reconciliation.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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56.4 — Validation and prohibited cases

Source: AF-AST-STD-001 / FIRST EDITION, p. 81; exact source subclause 56.4.

1. Local validation shall cover normal, boundary, missing, invalid and prohibited inputs in the actual deployment.	UNSET
2. Tests shall include open findings, expired authority, wrong profiles, broken evidence links, suspended status, duplicate imports and interrupted changes.	UNSET
3. Expected outcomes shall be defined from the controlling requirements before execution.	UNSET
4. Synthetic fixtures shall be isolated from live claims.	UNSET
5. Correction shall be followed by repetition of the original failed test and relevant regression, not merely an assurance that the code was changed.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Local validation baseline; expected/observed cases; defect and retest history; actual acceptance and limitations.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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56.5 — Export, migration and meaningful recovery

Source: AF-AST-STD-001 / FIRST EDITION, p. 81; exact source subclause 56.5.

1. Transfer shall preserve readable evidence, identities, versions, field semantics, units, time zones, approvals, relationships and current and historical status.	UNSET
2. Reconciliation shall examine meaning as well as counts; equal file totals may conceal substitutions or missing links.	UNSET
3. Recovery shall distinguish availability from integrity and reconcile events after the selected recovery point.	UNSET
4. A sent archive is not accepted custody.	UNSET
5. The receiving function shall demonstrate usable access and acknowledge continuing duties before dependent cutover.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Export manifest; semantic reconciliation; preserved source; recovery integrity; receiving acceptance and custody.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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57 — Assessor qualification, consistency and operator review

57.1 — Role-specific competence and scope

Source: AF-AST-STD-001 / FIRST EDITION, p. 81; exact source subclause 57.1.

1. The operator shall map actual assessment tasks to verified discipline, method, language, consequence and judgement requirements.	UNSET
2. Audit leadership, technical evaluation, independent review, decisions and appeals shall remain separate authorisations.	UNSET
3. Learning attendance and numerical experience minima shall not replace observed ability.	UNSET
4. A person competent in one method or programme shall not be assigned unrestricted aerospace authority.	UNSET
5. The case plan shall identify necessary specialists and limits before accepting the work.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Task-to-role and person matrix; verified entry evidence; observed performance; bounded authorisation.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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57.2 — Initial cadre and equivalent prior work

Source: AF-AST-STD-001 / FIRST EDITION, p. 81; exact source subclause 57.2.

1. Where an established assessor population is unavailable, the initial-candidate process in Clause 7.4 and Annex D shall apply.	UNSET
2. At least two independent competent professionals shall evaluate the relevant role and technical demonstration.	UNSET
3. Prior experience may satisfy specified elements only through an evidenced equivalence review.	UNSET
4. Programme knowledge, witnessed performance and independence shall not be waived.	UNSET
5. Founding status, honorary title or reciprocal approval shall not create an assessor credential.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Initial-panel competence/conflicts; criterion-by-criterion equivalence; witnessed task; independent qualification decision.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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57.3 — Practical assessment and maintained practice

Source: AF-AST-STD-001 / FIRST EDITION, p. 82; exact source subclause 57.3.

1. Knowledge and practical criteria shall be defined before evaluation.	UNSET
2. Essential safety, integrity and independence steps shall be separately passed.	UNSET
3. Mentored work shall identify what the candidate actually performed and what remained supervised.	UNSET
4. Continuing development, recent practice, observed performance and review feedback shall maintain the authorisation.	UNSET
5. Unmet minima or loss of currency shall suspend independent role use until the required supervised reactivation.	UNSET
6. Later renewal shall not validate prior work performed outside authority.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Blueprint and attempts; mentored-work records; continuing practice; suspension/reactivation; historical impact review.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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57.4 — Consistency without coerced agreement

Source: AF-AST-STD-001 / FIRST EDITION, p. 82; exact source subclause 57.4.

1. The programme shall use independent first responses to representative anonymised cases, followed by comparison of reasoning, evidence and outcome.	UNSET
2. Moderation shall distinguish unclear criteria, different facts, missing expertise and legitimate technical disagreement.	UNSET
3. A majority answer shall not become technical truth by itself.	UNSET
4. Quantitative agreement measures shall state their design and limitations and shall not be equated with correctness.	UNSET
5. Lessons affecting requirements shall follow controlled interpretation or version rather than informal instruction to produce uniform results.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Exercise design; independent responses; moderated reasoning; disagreement causes; controlled learning actions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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57.5 — Independent accrediting-operator review

Source: AF-AST-STD-001 / FIRST EDITION, p. 82; exact source subclause 57.5.

1. The independent operator review shall examine actual governance, competence, impartiality, technical methods, resources, case trails, decisions, remedies and registry integrity.	UNSET
2. Reviewers shall be genuinely independent and have adequate protected evidence access.	UNSET
3. The interval and pre-launch requirements in Clause 29.3 remain controlling.	UNSET
4. Review findings shall have verified correction and a bounded report.	UNSET
5. Completion of this internal programme review shall not be represented as external recognition or universal international acceptance.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Independent mandate and reviewers; actual case sampling; findings/closure; bounded report and continuing actions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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58 — Integrated assessment, readiness and decision integrity

58.1 — One scope tuple for each conclusion

Source: AF-AST-STD-001 / FIRST EDITION, p. 82; exact source subclause 58.1.

1. Before assessment, record the legal entity, actual performer, object, family/module, site, method or task, configuration, period, consequence, profile version and exclusions.	UNSET
2. Every requested conclusion shall have its own tuple and outcome class.	UNSET
3. Common evidence may be shared only after relevance review.	UNSET
4. An integrated proposal shall not become one unrestricted certificate.	UNSET
5. Unknown essential scope parameters shall be resolved before the programme accepts an evaluable live application.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Scope tuples; independent requested outcomes; profile completeness; justified evidence-reuse map.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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58.2 — Coverage and productive resources

Source: AF-AST-STD-001 / FIRST EDITION, p. 82; exact source subclause 58.2.

1. The plan shall provide competent coverage of necessary sites, methods, shifts, delivery modes, configurations and adverse cases.	UNSET
2. Resources shall follow actual work, not a commercial target.	UNSET
3. The eight-hour evaluator-day and separate reporting/review resources remain governed by Clause 12.4	UNSET
4. AF 9100 organisational rules apply only to their route.	UNSET
5. A trainee or second passive observer shall not be counted as additional productive technical coverage.	UNSET
6. Necessary omitted observations shall require more work or a restricted conclusion.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Work breakdown; person/task coverage; site/method witnesses; actual productive time and changes.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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58.3 — Vertical trails and shared failure

Source: AF-AST-STD-001 / FIRST EDITION, p. 83; exact source subclause 58.3.

1. Evaluation shall connect actual outputs backward to requirements, authority, sources, people, methods and configuration, and forward to release, support and feedback.	UNSET
2. Failed and interrupted work shall be represented.	UNSET
3. Findings in a shared calibration system, source, procedure or digital platform shall be traced to dependent scopes.	UNSET
4. Restriction to an unaffected subset requires independent evidence that the boundary is real.	UNSET
5. Removing a difficult item from the sample shall not resolve a systemic deficiency.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. End-to-end trails; adverse-case sample; common-control dependency map; justified scope restrictions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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58.4 — Independent review and non-compensable gates

Source: AF-AST-STD-001 / FIRST EDITION, p. 83; exact source subclause 58.4.

1. The decision dossier shall reconcile scope, authority, competence, independence, coverage, method validity, evidence, uncertainty, findings and claims.	UNSET
2. Positive grant, renewal or extension requires every applicable gate, including closure of all in-scope nonconformities.	UNSET
3. A favourable total score, environmental achievement or majority vote shall not supply missing technical evidence.	UNSET
4. Evaluation and final decision shall remain appropriately separated.	UNSET
5. The actual decision date shall not be replaced by a ceremony, invoice or file-generation date.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Versioned independent-review dossier; gate conjunction; panel participation; actual reasoned decision and claim.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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58.5 — Continuing status and real chronology

Source: AF-AST-STD-001 / FIRST EDITION, p. 83; exact source subclause 58.5.

1. Surveillance, change, renewal, suspension, restoration and withdrawal shall preserve the controlling clocks in Clause 16 and Annex H.	UNSET
2. Booking an assessment is not its completion.	UNSET
3. Restoration does not extend original expiry without the required renewal or validate a suspended interval.	UNSET
4. Historical instance results shall retain their object and period rather than acquire a fictitious ongoing validity.	UNSET
5. Public status, urgent notices and protected case history shall remain consistent after every material event.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Authoritative cycle baseline; actual completions; status events; preserved gaps; notifications and public reconciliation.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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59 — Future technology and responsible innovation

59.1 — Need, benefit and foreseeable consequences

Source: AF-AST-STD-001 / FIRST EDITION, p. 83; exact source subclause 59.1.

1. A development proposal shall state the problem, intended beneficiaries, expected benefit, foreseeable harm, affected people, technical owner and evidence gaps.	UNSET
2. It shall identify the existing family and object route or justify a separately governed architectural change.	UNSET
3. The review shall consider technical feasibility, safety, privacy, misuse, access and resources.	UNSET
4. A projected market or ambitious technology label shall not establish that the proposed method can produce a valid independent conclusion.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Development brief; family/object mapping; benefit and harm review; feasibility and evidence-gap assessment.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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59.2 — Distinguish research, pilot and operational use

Source: AF-AST-STD-001 / FIRST EDITION, p. 83; exact source subclause 59.2.

1. Readiness descriptions shall identify what has actually been demonstrated, under which conditions and with what limitations.	UNSET
2. Research success, laboratory demonstration, restricted pilot, qualified process and operational service shall remain distinct states.	UNSET
3. Each transition shall have an evidence and authority gate.	UNSET
4. A prototype may proceed within a safe approved development boundary without a conformity claim.	UNSET
5. Operational deployment shall not be justified solely by completion of a research milestone.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Demonstration-state register; actual observations; transition criteria; bounded pilot and release decisions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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59.3 — Emerging domains and evidence gaps

Source: AF-AST-STD-001 / FIRST EDITION, p. 84; exact source subclause 59.3.

1. Candidate topics may include new propulsion and energy architectures, advanced materials, adaptive manufacturing, autonomous services, distributed space systems, remote habitation and evolving digital trust mechanisms.	UNSET
2. These are development directions, not forecasts of maturity or promised programme releases.	UNSET
3. The technical owner shall determine their specific hazards, dependencies, measurement needs, assessor competence and acceptance criteria.	UNSET
4. No universal test recipe or claim of future readiness shall replace a completed technical profile.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Topic-specific profile development; hazard and evidence analysis; competence feasibility; prospective acceptance basis.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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59.4 — Safe experimentation and independent challenge

Source: AF-AST-STD-001 / FIRST EDITION, p. 84; exact source subclause 59.4.

1. Experimental work shall have authorised boundaries, competent specialists, protections, monitoring and stop conditions suitable for its consequence.	UNSET
2. The organisation shall state which actions are reversible and which create irreversible commitments.	UNSET
3. Independent challenge shall examine weak operating history, unobserved failure mechanisms and optimistic assumptions.	UNSET
4. Synthetic or simulated results shall be identified.	UNSET
5. A restricted experiment shall not silently expand into normal production or passenger, crew or public exposure without the relevant evidence and permissions.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Experiment authorisation; safety and observation plan; independent review; exact limitations and stop decisions.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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59.5 — Learning, consultation and controlled adoption

Source: AF-AST-STD-001 / FIRST EDITION, p. 84; exact source subclause 59.5.

1. Pilot results shall be assessed for criterion clarity, technical discrimination, burden, repeatability of judgement and adverse outcomes.	UNSET
2. Material new requirements shall follow the consultation and approval process in Clause 4.3.	UNSET
3. Adoption shall state which profiles, people, tools and holders are affected and preserve previous decision bases.	UNSET
4. Horizon scanning shall inform a maintained development portfolio, but shall not be used to impose unconsulted requirements or advertise unavailable accreditation routes.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Pilot findings; reasoned versions ; consultation and ballot records; transition plan; truthful availability catalogue.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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60 — Integrated roadmap and implementation architecture

60.1 — Foundation and retained architecture

Source: AF-AST-STD-001 / FIRST EDITION, p. 84; exact source subclause 60.1.

1. Implementation shall begin with the actual scheme owner, legal operator, responsibilities, permissible outcome names and controlled requirements.	UNSET
2. Preserve F01–F08 and the original code-to-subject relationships.	UNSET
3. The 68 retained technical development subjects and the 108-title base documentation architecture are organising inventories, not measures of competence or proof of activation.	UNSET
4. A separate programme family shall not be created merely because a technical topic needs more detailed guidance or a dedicated local profile.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Authority and compatibility review; retained architecture; controlled source inventory; development versus activation status.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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60.2 — Common operating system and competent people

Source: AF-AST-STD-001 / FIRST EDITION, p. 85; exact source subclause 60.2.

1. Establish the common processes for application, scope, impartiality, resources, evidence, findings, decisions, remedies, records and continuity.	UNSET
2. Assign real accountable owners and evaluate people for their actual roles.	UNSET
3. The foundational assessor, profile, registry, operator-review, consistency, surveillance and publication workpacks may support implementation without replacing the core requirements.	UNSET
4. A prepared form or completed training session shall not establish that the corresponding operational process has been implemented and independently verified.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Working process owners; competent role assignments; authentic operating trails; validated records and controls.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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60.3 — Family and technical-profile development

Source: AF-AST-STD-001 / FIRST EDITION, p. 85; exact source subclause 60.3.

1. Develop each family route against its exact objects, sites, methods, levels and service conditions.	UNSET
2. F03 provider competence, F04 education, F05–F07 operations, F08 statements and F01/F02 system/process work may progress in parallel when dependencies are met.	UNSET
3. The application schedule shall complete measurable or defined attribute criteria, methods, uncertainty, witnesses, independence, duration and permissible claims.	UNSET
4. Missing essential parameters keep the particular profile in development without preventing unrelated complete profiles from progressing.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Completed Annex C payload; family-specific criteria; application schedule; technical and independent completeness review.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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60.4 — Integrated pilots and local system acceptance

Source: AF-AST-STD-001 / FIRST EDITION, p. 85; exact source subclause 60.4.

1. Before live scope release, perform representative technical and workflow pilots and verify correction of blocking findings.	UNSET
2. Test actual source access, assessment coverage, adverse results, conflicts, independent decisions, public claims and recovery.	UNSET
3. Local system validation shall test the actual deployment, not only a reference workbook.	UNSET
4. Synthetic cases support logic checks but shall not be represented as genuine applicants or field validation.	UNSET
5. Readiness conclusions shall state precisely which capabilities have been demonstrated.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Pilot plans and executed evidence; findings/retests; local validation; bounded readiness report.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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60.5 — Controlled launch, surveillance and evolution

Source: AF-AST-STD-001 / FIRST EDITION, p. 85; exact source subclause 60.5.

1. Launch shall identify exact active profiles, authorised operators, competent resources, terms, public claims and operational effectivity.	UNSET
2. Scope availability shall follow real release decisions.	UNSET
3. Continuing review shall monitor technical validity, independence, changes, outcomes, access and resources rather than certificate volume alone.	UNSET
4. The programme shall maintain usable historical records, controlled version and responsible closure.	UNSET
5. A later expansion shall preserve earlier code meanings and undergo its own compatibility, technical and activation review.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Actual activation; public availability; surveillance and independent review; version /transition and closure records.

Acceptance: Apply the prospective child predicates and Annex AL. All applicable mandatory children must PASS; independent N/A approval is required; no positive closure with HOLD, FAIL or missing evidence.

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61 — Edition control, adoption and publication integrity

61.1 — Publication identity

Source: AF-AST-STD-001 / FIRST EDITION, p. 86; exact source subclause 61.1.

1. The display title shall be ASTRA with AEROSPACE STANDARD directly beneath it.	UNSET
2. The standard identifier shall remain AF ASTRA-100:2026 and the document code AF-AST-STD-001.	UNSET
3. The displayed edition shall be FIRST EDITION and the displayed publication date 30 September 2026.	UNSET
4. These labels shall not be substituted for an actual technical approval, contract effectivity, operational permission or conformity-decision date.	UNSET

Verify: Compare cover, identity page, headers, metadata and controlled publication record.

Acceptance: Identity fields agree. A publication date alone provides no evidence of adoption or operational authority.

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61.2 — Retained text and authored additions

Source: AF-AST-STD-001 / FIRST EDITION, p. 86; exact source subclause 61.2.

1. Clauses 0–60 and Annexes A–AH retain the source architecture, subject identifiers and operational controls, subject to the editorial identity changes stated in Annex AI.	UNSET
2. This clause, Clauses 62–80 and Annexes AK–AR develop explicit all-space coverage, decision logic, calculations and evidence controls.	UNSET
3. They shall not be represented as records of completed field evaluation or as proof that the complete consolidated text existed on the displayed edition date.	UNSET

Verify: Review the internal authorship boundary in Annex AJ and the actual approval dossier.

Acceptance: Source-derived requirements and newly authored material are distinguishable; no invented approval, validation or prior effectivity is asserted.

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61.3 — Dependent documents and compatibility

Source: AF-AST-STD-001 / FIRST EDITION, p. 86; exact source subclause 61.3.

1. The responsible custodian shall identify every affected profile, manual, procedure, checklist, form and register before use of this text.	UNSET
2. Existing 108-title architecture and F01–F08 codes shall remain stable.	UNSET
3. Newly added requirements shall be mapped to the actual dependent documents; a previous checklist shall not be assumed to cover them.	UNSET
4. Actual constitutional and legal obligations remain separately applicable.	UNSET

Verify: Reconcile the dependency register against selected requirements and operating versions.

Acceptance: Every required operating document is available, consistent and authorised for the intended use. Unresolved conflicts place dependent use on HOLD.

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61.4 — Actual approval and activation

Source: AF-AST-STD-001 / FIRST EDITION, p. 86; exact source subclause 61.4.

1. The adoption dossier shall retain the proposed text, consultation, comment dispositions, valid technical decision, institutional authority, operator identity and exact scope activation.	UNSET
2. Real signatories and event timestamps shall be recorded when the events occur.	UNSET
3. A blank, generated or copied signature shall not be used as an approval.	UNSET
4. Technical and institutional release shall remain separate from the acceptance of a particular applicant.	UNSET

Verify: Trace the authorisation chain and independently verify each necessary approval.

Acceptance: All triggered gates in Clause 4 and Annex P are satisfied before live scope use; otherwise the affected scope remains unavailable.

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61.5 — Correction, custody and file integrity

Source: AF-AST-STD-001 / FIRST EDITION, p. 87; exact source subclause 61.5.

1. The custodian shall retain controlled source versions, change reasons, affected requirements and distribution records even though no numbered change label appears on the publication.	UNSET
2. Corrections shall not erase historical decisions.	UNSET
3. The issued PDF shall have complete content, readable figures, working navigation and an identifiable master.	UNSET
4. Removal of publication labels shall not remove record timestamps, method versions or technical configuration controls.	UNSET

Verify: Reconcile the final file with its manifest and inspect content, navigation and correction records.

Acceptance: No missing section, contradictory edition field or unreadable essential figure; the original evidence and actual history remain retrievable.

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62 — Requirement specification and deterministic decision logic

62.1 — Atomic requirement record

Source: AF-AST-STD-001 / FIRST EDITION, p. 88; exact source subclause 62.1.

1. Each assessed requirement shall have a stable identifier, one accountable owner, an applicability trigger, defined object and configuration, required behaviour or characteristic, observable conditions, verification method and acceptance predicate.	UNSET
2. Compound statements shall be separated into individually testable rows without deleting any condition.	UNSET
3. Terms such as adequate, suitable, promptly or representative shall be resolved through the explicit records in this clause before they support an acceptance decision.	UNSET

Verify: Inspect each requirement row and its linked method, boundary and predicate.

Acceptance: Every applicable row is evaluable without inventing an object, limit, observation or decision role. Unresolved essential terms result in HOLD.

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62.2 — Mandatory parameter completion

Source: AF-AST-STD-001 / FIRST EDITION, p. 88; exact source subclause 62.2.

1. An application-dependent value shall be entered in a controlled parameter schedule before the relevant test or evaluation.	UNSET
2. Each entry shall state symbol, meaning, unit, inclusive or exclusive bounds, uncertainty treatment, operating modes, technical derivation, source evidence, approver and change trigger.	UNSET
3. A declared value is not adequate merely because the applicant selected it.	UNSET
4. The independent reviewer shall challenge whether it bounds the claimed environment and consequence.	UNSET

Verify: Recalculate derivations and check mission, interface and obligation coverage.

Acceptance: The complete parameter set is approved prospectively. A blank, TBD, unsupported factor or undefined threshold blocks the dependent release.

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62.3 — Evidence validity before conformity

Source: AF-AST-STD-001 / FIRST EDITION, p. 88; exact source subclause 62.3.

1. The evaluator shall first determine whether evidence belongs to the correct object, configuration, period, method and authorised performer and whether it is usable for the intended inference.	UNSET
2. Only valid relevant evidence shall enter a conformity predicate.	UNSET
3. Rejected, corrupted, missing, unobservable or wrong-version evidence shall remain identified.	UNSET
4. Evidence may be valid and show failure; an invalid test is not a valid pass or a valid proof of product failure.	UNSET

Verify: Check provenance, configuration, method capability, original data and uncertainty separately from result classification.

Acceptance: Validity is established before PASS or FAIL is assigned; otherwise use HOLD with an explicit invalidity or evidence-gap reason.

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62.4 — Four requirement states

Source: AF-AST-STD-001 / FIRST EDITION, p. 88; exact source subclause 62.4.

1. A requirement state shall be PASS, FAIL, HOLD or N/A.	UNSET
2. PASS means the approved predicate is satisfied by valid evidence.	UNSET
3. FAIL means valid evidence demonstrates that the predicate is not satisfied.	UNSET
4. HOLD means applicability, method, evidence, uncertainty or authority is not sufficiently resolved.	UNSET
5. N/A means the trigger and retained responsibility are absent and independent approval of that exclusion is recorded.	UNSET
6. Missing equipment, budget, access or time shall not justify N/A.	UNSET

Verify: Execute the truth table in Annex AL using actual scope and evidence.

Acceptance: Exactly one current state is assigned with reason and traceable evidence. All earlier states are retained.

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62.5 — No compensation or favourable default

Source: AF-AST-STD-001 / FIRST EDITION, p. 89; exact source subclause 62.5.

1. A positive conformity decision shall require PASS for every applicable mandatory requirement, closure of every in-scope nonconformity, valid independent competence and actual authority.	UNSET
2. N/A rows shall have approved reasons	UNSET
3. HOLD and FAIL rows shall not contribute a favourable default.	UNSET
4. Weighted scores, averages, majority votes, programme membership or good results in another discipline shall not compensate for an unmet condition.	UNSET

Verify: Reconcile the complete requirement population with the decision dossier; test missing and negative cases.

Acceptance: The Boolean conjunction in Annex AL is true. Otherwise no positive grant, renewal or extension is permitted.

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62.6 — Exceptions, tailoring and unresolved conflict

Source: AF-AST-STD-001 / FIRST EDITION, p. 89; exact source subclause 62.6.

1. An exception shall identify the affected requirement, technical basis, permissible authority, scope, consequence and independent review.	UNSET
2. It shall not waive a mandatory ASTRA gate or an applicable binding obligation.	UNSET
3. Tailoring shall define how a requirement is met in the actual application, not silently remove it.	UNSET
4. If two applicable requirements cannot both be satisfied, the responsible authorities shall resolve the conflict before dependent work; an assessor shall not choose the easier rule.	UNSET

Verify: Review each exclusion, alternative method and concession against controlling requirements.

Acceptance: No unapproved exception or unresolved conflict affects a positive conclusion; any known departure remains visible in its separate technical disposition.

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62.7 — Decision replay and consistency

Source: AF-AST-STD-001 / FIRST EDITION, p. 89; exact source subclause 62.7.

1. A decision shall be reproducible from the same frozen requirements, parameter values, original evidence, calculation version, uncertainty model and role assignments.	UNSET
2. Two competent reviewers reaching different results shall identify the differing input, predicate, assumption or expertise before closure.	UNSET
3. Interpretation records may clarify a term but shall not change limits after results are known.	UNSET
4. Equation inputs shall retain unrounded values.	UNSET

Verify: Independently replay a selected boundary case and reconcile every difference.

Acceptance: The replay produces the same supported state, or the case remains HOLD pending a controlled technical resolution.

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63 — Complete space-domain applicability and mission boundaries

63.1 — Domain selection without geographic omission

Source: AF-AST-STD-001 / FIRST EDITION, p. 90; exact source subclause 63.1.

1. The mission owner shall assess every domain in Annex AK and record applicable, not applicable or not yet determined.	UNSET
2. The scope shall include terrestrial preparation, launch and recovery interfaces as well as the in-space activity.	UNSET
3. Earth orbit, cislunar and libration-region operations, solar and planetary missions, small bodies, ocean-world exploration and interstellar precursor concepts shall not be excluded solely because they differ from conventional satellite operations.	UNSET

Verify: Compare the mission concept and responsibility map with all Annex AK domain rows.

Acceptance: Every domain has a reasoned disposition. Any unassessed domain that can affect a required outcome remains HOLD.

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63.2 — Object and activity rather than a universal label

Source: AF-AST-STD-001 / FIRST EDITION, p. 90; exact source subclause 63.2.

1. The claimed object shall be identified as a system, subsystem, component, material, process, service, facility, software artefact, person, educational programme, assessment provider or statement.	UNSET
2. Record what is designed, built, tested, operated, maintained or retired, by whom and where.	UNSET
3. A phrase such as all space, space-qualified or complete mission assurance shall not replace the exact boundaries and limitations of the evaluated object.	UNSET

Verify: Compare application, technical schedule, evidence and proposed public wording.

Acceptance: The object and activities agree throughout the dossier; unsupported sector-wide or geographically unlimited claims are prohibited.

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63.3 — Environment, phase and mode matrix

Source: AF-AST-STD-001 / FIRST EDITION, p. 90; exact source subclause 63.3.

1. For each applicable domain, define mission phase, operating mode, intended duration, exposure, interfaces, repairability, accessible evidence and credible degraded states.	UNSET
2. Include dormant storage, transport, separation, commissioning, routine service, communication outage, servicing, retirement and loss-of-mission conditions when relevant.	UNSET
3. A qualification for one phase shall not automatically cover another phase with different loads, resources or observability.	UNSET

Verify: Review the complete phase-by-mode matrix and its verification links.

Acceptance: Every safety-, mission- or claim-relevant cell has accepted evidence or an explicit restriction; no essential unexamined cell is passed by analogy.

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63.4 — No automatic new programme family

Source: AF-AST-STD-001 / FIRST EDITION, p. 90; exact source subclause 63.4.

1. Space-domain tags organise technical applicability within F01–F08.	UNSET
2. They shall not be counted as additional accreditation families, new public privileges or independently active programmes.	UNSET
3. The technical owner shall map each space activity to the existing object route and applicable clauses, then define a dedicated profile where the actual method, environment or competence differs.	UNSET
4. A portfolio listing is not scope activation.	UNSET

Verify: Check domain tags against family, module, object and activation records.

Acceptance: Every granted space scope has a valid family connection and independently complete profile; no authority is inferred from the catalogue.

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63.5 — Unknown and future environments

Source: AF-AST-STD-001 / FIRST EDITION, p. 91; exact source subclause 63.5.

1. For a novel environment or technology, the technical owner shall document known conditions, uncertain mechanisms, missing measurements, model limitations and the evidence needed to resolve them.	UNSET
2. Restricted research may continue only inside its approved protective boundary.	UNSET
3. An operational or conformity claim shall not be issued until the essential criteria and evidence are complete.	UNSET
4. Existing equations shall not be extrapolated beyond their validity without a tested justification.	UNSET

Verify: Examine novelty analysis, experiment authority and unresolved-condition register.

Acceptance: Unknown essential behaviour is not recorded as safe or conforming. Development status and permitted work are explicit.

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63.6 — Interface and lifecycle closure

Source: AF-AST-STD-001 / FIRST EDITION, p. 91; exact source subclause 63.6.

1. The scope shall include relevant upstream and downstream duties, including supplied design data, ground services, communications, receiving facilities, environmental custody and long-term records.	UNSET
2. Transfers shall identify the sender, receiver, evidence and acceptance.	UNSET
3. A contractor delivering one subsystem shall not be made responsible for unrelated mission duties, but an integrator shall not exclude duties it retains because they are performed by others.	UNSET

Verify: Trace each interface to an accountable performer and retained owner.

Acceptance: No essential responsibility, evidence handover or terminal obligation is orphaned.

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64 — Mission architecture and environmental definition

64.1 — Mission environmental baseline

Source: AF-AST-STD-001 / FIRST EDITION, p. 92; exact source subclause 64.1.

1. The baseline shall define relevant mechanical, thermal, pressure, radiation, plasma, charging, electromagnetic, contamination, micrometeoroid, dust, gravitational and atmospheric conditions by phase and location.	UNSET
2. Each selected model or data source shall have identity, applicable domain, uncertainty and update responsibility.	UNSET
3. The omission of a mechanism shall be justified technically, not by lack of a test facility.	UNSET

Verify: Audit environment-to-requirement and environment-to-test traceability.

Acceptance: All material environments and coupled effects are bounded by approved assumptions and evidence; undefined exposure blocks qualification acceptance.

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64.2 — Geometry, reference frames and event time

Source: AF-AST-STD-001 / FIRST EDITION, p. 92; exact source subclause 64.2.

1. Trajectory- and geometry-dependent information shall identify frame origin, orientation, epoch, time scale, units, state covariance and transformation version.	UNSET
2. An exchanged position or orientation shall not be accepted without enough metadata to transform it consistently.	UNSET
3. Surface-relative, body-fixed, inertial and local engineering coordinates shall remain distinct.	UNSET
4. Event time, receipt time and ground processing time shall not be merged.	UNSET

Verify: Recompute selected transformations and challenge wrong-frame and stale-epoch inputs.

Acceptance: Transformations meet the approved error and time bounds; incompatible or ambiguous metadata produces HOLD.

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64.3 — Uncertainty, scenarios and design envelope

Source: AF-AST-STD-001 / FIRST EDITION, p. 92; exact source subclause 64.3.

1. Define nominal, bounding, dispersed and degraded scenarios and how they support design, test and operational limits.	UNSET
2. Record whether uncertainty is statistical, epistemic, model discrepancy or an unbounded knowledge gap.	UNSET
3. Extreme values shall not be combined as independent random variables without justification.	UNSET
4. A confidence level shall name its variable, population and model rather than describe the whole mission.	UNSET

Verify: Review scenario construction, dependencies and sensitivity to uncertain inputs.

Acceptance: The accepted envelope covers the declared decisions; unsupported extrapolation is excluded or held.

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64.4 — Resource budgets and coupled margins

Source: AF-AST-STD-001 / FIRST EDITION, p. 92; exact source subclause 64.4.

1. Mass, power, energy, thermal rejection, timing, data, attitude-control resources and consumables shall have explicit allocation and reserve ownership.	UNSET
2. Account for concurrent loads, common reserves, environmental degradation, ageing, unavailable recharge and terminal obligations.	UNSET
3. The same reserve shall not be credited to two simultaneous needs.	UNSET
4. Positive scalar totals shall not replace transient, local or coupled analysis.	UNSET

Verify: Reconcile subsystem and system budgets by phase and condition; independently check Annex AM calculations used.

Acceptance: Each required margin meets its prospectively approved value under all selected bounding conditions; no reserve is double allocated.

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64.5 — Heritage and similarity

Source: AF-AST-STD-001 / FIRST EDITION, p. 92; exact source subclause 64.5.

1. A heritage argument shall compare actual design, materials, manufacturing source, mission exposure, software, interfaces and life history.	UNSET
2. Identify unchanged evidence, invalidated evidence and new demonstration.	UNSET
3. Successful service of a related design shall be accepted only for characteristics and mechanisms it actually supports.	UNSET
4. Lack of a recorded failure shall not prove performance of an unmonitored critical characteristic.	UNSET

Verify: Review a difference matrix and trace each retained conclusion to applicable original evidence.

Acceptance: Every material difference has a technical disposition and sufficient evidence before the new claim is accepted.

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64.6 — Baseline maintenance and irreversible decisions

Source: AF-AST-STD-001 / FIRST EDITION, p. 93; exact source subclause 64.6.

1. Changes to mission duration, geometry, environment, operating mode, supplier or external service shall trigger a documented impact review.	UNSET
2. Before an irreversible commitment, the decision maker shall reconcile the current environmental baseline, actual configuration, evidence, reserves, unresolved issues and protective options.	UNSET
3. Commercial schedules shall not be used as substitute evidence.	UNSET

Verify: Compare the frozen readiness dossier with the actually delivered configuration and latest accepted mission assumptions.

Acceptance: Every essential gate is complete and all permitted actions are stated; otherwise the irreversible commitment remains blocked.

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65 — Spacecraft platform, payload and subsystem assurance

65.1 — Structures, mechanisms and deployment

Source: AF-AST-STD-001 / FIRST EDITION, p. 94; exact source subclause 65.1.

1. The organisation shall define structural and mechanism functions, materials, interfaces, loads, thermal distortion, life, release states and deployment observability.	UNSET
2. Qualification shall address relevant manufacturing variability, lubrication or surface condition, storage ageing, constraints and incomplete deployment.	UNSET
3. Final configuration and any mechanical lock or restraint state shall be independently verified where it affects an essential function.	UNSET

Verify: Review configuration-specific load, test, inspection, mechanism and deployment evidence.

Acceptance: Each required function and structural criterion is met in its approved envelope; unknown restraint or deployment state blocks dependent operation.

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65.2 — Thermal control and thermal protection

Source: AF-AST-STD-001 / FIRST EDITION, p. 94; exact source subclause 65.2.

1. Thermal assurance shall account for heat generation, solar and planetary inputs, conduction, radiation, thermal storage, contact conductance, coatings, degradation and operating modes.	UNSET
2. Distinguish steady-state screening equations from transient qualification.	UNSET
3. Temperature limits shall identify the actual item, location, mode and measurement uncertainty.	UNSET
4. A single temperature sensor shall not represent all critical locations without a validated relationship.	UNSET

Verify: Review thermal models, instrumentation, balance correlation and hot/cold/transient test coverage.

Acceptance: All required temperatures and gradients meet approved bounds including uncertainty and model discrepancy; unresolved critical locations remain HOLD.

Evidence / method / parameter / sample references and limits

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65.3 — Power generation, storage and distribution

Source: AF-AST-STD-001 / FIRST EDITION, p. 94; exact source subclause 65.3.

1. Power assurance shall identify end-of-life generation, eclipses or outages, duty cycle, distribution losses, peak demand, storage state, switching, grounding and protective isolation.	UNSET
2. Both available power and stored energy shall satisfy their distinct requirements.	UNSET
3. Protective tests shall use separately authorised safe procedures.	UNSET
4. A nominal capacity statement shall not demonstrate usable capacity under ageing and mission temperature.	UNSET

Verify: Reconcile phase budgets and examine actual storage, conversion and protection evidence.

Acceptance: Power, energy and recovery predicates all pass; adequate average generation does not compensate for an unsupported peak or outage condition.

Evidence / method / parameter / sample references and limits

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65.4 — Avionics, electronics and radiation effects

Source: AF-AST-STD-001 / FIRST EDITION, p. 94; exact source subclause 65.4.

1. The device and board assurance record shall retain manufacturer, lot, configuration, screening, operating state and environment-specific suitability.	UNSET
2. Total-dose degradation, displacement effects and single-event behaviour shall be assessed separately when triggered.	UNSET
3. System response, error containment, recovery and residual data integrity shall be demonstrated.	UNSET
4. Radiation values shall state material, location, quantity and model; incompatible dose quantities shall not be combined.	UNSET

Verify: Inspect parts genealogy, mission susceptibility analysis, specialist results and integrated recovery tests.

Acceptance: All triggered mechanisms have accepted application-specific evidence; a part label or dose-only result does not close unexamined single-event behaviour.

Evidence / method / parameter / sample references and limits

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65.5 — Attitude, pointing, sensing and control interfaces

Source: AF-AST-STD-001 / FIRST EDITION, p. 95; exact source subclause 65.5.

1. The assurance case shall define pointing, knowledge, stability, alignment, jitter, timing, observability, actuator limits and degraded modes for the actual payload and mission.	UNSET
2. Coordinate frames and error budgets shall be explicit.	UNSET
3. Verification shall include sensor loss, stale data, actuator saturation and misleading measurements within a safe test arrangement.	UNSET
4. This clause does not specify guidance or manoeuvre commands.	UNSET

Verify: Trace error allocation to integrated measurement and closed-loop verification on representative configuration.

Acceptance: Required performance and protective-state predicates pass; undetected loss of critical observability remains an essential gap.

Evidence / method / parameter / sample references and limits

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65.6 — Payload function and scientific or service output

Source: AF-AST-STD-001 / FIRST EDITION, p. 95; exact source subclause 65.6.

1. Payload requirements shall identify intended outputs, calibration, dynamic range, contamination sensitivity, pointing or timing needs, processing and delivered data quality.	UNSET
2. Instrument performance, system suitability and scientific interpretation are separate conclusions.	UNSET
3. Changes in compression, processing or calibration shall retain raw or reconstructable data and algorithm identity.	UNSET
4. Marketing resolution or accuracy figures shall state the tested conditions and limitations.	UNSET

Verify: Reconstruct selected output products from identified inputs, calibration and processing.

Acceptance: Output criteria are met for the stated domain; unsupported scientific or service claims are not inferred from a functioning instrument.

Evidence / method / parameter / sample references and limits

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65.7 — Integrated platform acceptance

Source: AF-AST-STD-001 / FIRST EDITION, p. 95; exact source subclause 65.7.

1. The integrator shall reconcile all subsystem configurations, resource allocations, interfaces, anomalies, software loads, protective controls and operating restrictions.	UNSET
2. Individually accepted subsystems shall be examined for common-cause failures and conflicting assumptions.	UNSET
3. Verify the delivered system rather than a earlier demonstration model.	UNSET
4. Remaining development actions shall not be presented as completed flight acceptance.	UNSET

Verify: Conduct independent configuration, interface and evidence closure across the complete integration dossier.

Acceptance: All applicable integration gates pass; each unresolved essential interface blocks the dependent mission or system conclusion.

Evidence / method / parameter / sample references and limits

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66 — Communications, navigation support and time services

66.1 — End-to-end service definition

Source: AF-AST-STD-001 / FIRST EDITION, p. 96; exact source subclause 66.1.

1. Define source, destination, relay, ground station, user, supported modes, data class, service availability, permitted latency, correctness and authority.	UNSET
2. Separate service connectivity from integrity and from the right to use a frequency or external network.	UNSET
3. All external dependencies shall have actual service scope, ownership, availability and failure responsibility.	UNSET

Verify: Trace representative data from origin to authorised use including relays and third parties.

Acceptance: The claimed service boundary is complete and each essential dependency is supported; a link diagram alone is insufficient.

Evidence / method / parameter / sample references and limits

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66.2 — Link and performance budgets

Source: AF-AST-STD-001 / FIRST EDITION, p. 96; exact source subclause 66.2.

1. Link calculations shall state distance, frequency or wavelength, antenna or optical characteristics, pointing, losses, noise, coding, data rate and required performance.	UNSET
2. Free-space attenuation shall not be treated as the complete link model.	UNSET
3. Atmospheric, weather, acquisition, polarisation, interference and implementation effects shall be included when material.	UNSET
4. Units and logarithmic reference quantities shall be consistent.	UNSET

Verify: Independently recompute the budget and validate assumed performance against representative evidence.

Acceptance: The worst required operating cases meet approved link and quality margins; omitted material losses or unknown receiver performance block acceptance.

Evidence / method / parameter / sample references and limits

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66.3 — Delay and feasible intervention

Source: AF-AST-STD-001 / FIRST EDITION, p. 96; exact source subclause 66.3.

1. The service shall distinguish one-way propagation, round-trip exchange, queueing, processing, retransmission, human response and actuation delays.	UNSET
2. A ground intervention shall count as a protective control only when information and action can arrive within the validated hazard-response window.	UNSET
3. Store-and-forward or disruption-tolerant operation shall define expiration, duplicate handling, priority and stale-command rejection.	UNSET

Verify: Test worst-case delay and outage scenarios using the approved mission geometry and timing model.

Acceptance: Required responses are feasible within the approved window; a nominal human review step does not pass if communication makes it ineffective.

Evidence / method / parameter / sample references and limits

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66.4 — Data age and time uncertainty

Source: AF-AST-STD-001 / FIRST EDITION, p. 96; exact source subclause 66.4.

1. Every consequential data item shall retain event time, time scale, receipt time, sequence, quality flags and relevant uncertainty.	UNSET
2. Clock drift, conversion error, leap or reset handling and synchronisation loss shall be bounded.	UNSET
3. Maximum data age and timing uncertainty shall be defined before use.	UNSET
4. A recent packet receipt shall not make its old event data current.	UNSET

Verify: Challenge stale, duplicated, reordered, wrong-time-scale and clock-reset data.

Acceptance: Data outside approved age or uncertainty bounds are marked unusable for the affected decision and trigger the defined protective response.

Evidence / method / parameter / sample references and limits

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66.5 — Position and navigation-support integrity

Source: AF-AST-STD-001 / FIRST EDITION, p. 97; exact source subclause 66.5.

1. The service shall define position, velocity, orientation or time outputs, reference frame, validity interval, uncertainty, integrity indication and user reliance.	UNSET
2. The validation shall distinguish nominal error from misleading information and unavailable service.	UNSET
3. Transformations and combined sources shall preserve correlations.	UNSET
4. The provider shall not imply that a navigation-support result grants authority to conduct the receiving operation.	UNSET

Verify: Compare independent truth/reference evidence and test wrong-frame, stale-source and service-loss cases.

Acceptance: All performance and integrity predicates pass for the declared use; an unavailable or uncertain essential output is not a valid zero-error estimate.

Evidence / method / parameter / sample references and limits

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66.6 — Secure command and relay interfaces

Source: AF-AST-STD-001 / FIRST EDITION, p. 97; exact source subclause 66.6.

1. Command-bearing links shall verify origin, authority, target, sequence, integrity, timing and permitted operation.	UNSET
2. Relays shall not enlarge the original authority.	UNSET
3. Replays, duplicates, interrupted delivery, expired credentials and compromised dependencies shall be handled through validated controls.	UNSET
4. Security tests shall remain inside written safe authorisation and shall not interfere with live assets.	UNSET

Verify: Execute safe positive and prohibited command-delivery tests using isolated synthetic fixtures.

Acceptance: Unauthorised, stale or wrong-target commands cannot pass the accepted workflow; commanded action and observed physical completion remain distinct.

Evidence / method / parameter / sample references and limits

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66.7 — Outage, recovery and service evidence

Source: AF-AST-STD-001 / FIRST EDITION, p. 97; exact source subclause 66.7.

1. The operator shall reconcile lost data, delayed messages, incomplete transfers and state changes after an outage.	UNSET
2. Recovery shall restore meaning, configuration, authority and history as well as network availability.	UNSET
3. Report actual service measures with time windows, excluded outages and missing data.	UNSET
4. A service restoration shall not retrospectively validate dependent decisions made with unavailable or corrupted information.	UNSET

Verify: Review outage timelines, replay/reconciliation logs and receiving acceptance.

Acceptance: All necessary state and data integrity checks are complete before assured use resumes; remaining gaps are carried into the affected claims.

Evidence / method / parameter / sample references and limits

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67 — Ground segment, command lifecycle and mission operations

67.1 — Configuration and operational baseline

Source: AF-AST-STD-001 / FIRST EDITION, p. 98; exact source subclause 67.1.

1. The ground baseline shall identify deployed hardware, software, databases, operational procedures, configuration dictionaries, simulation models, keys, operators and external services.	UNSET
2. The controlled baseline shall be linked to each supported flight configuration.	UNSET
3. A simulator or training installation shall be segregated from live commanding.	UNSET

Verify: Reconcile installed versions and target mappings with approved release records.

Acceptance: Every live mission interface uses an accepted compatible baseline; training or stale configuration cannot be selected as a live authority.

Evidence / method / parameter / sample references and limits

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67.2 — Command proposal and preconditions

Source: AF-AST-STD-001 / FIRST EDITION, p. 98; exact source subclause 67.2.

1. Each consequential command or command sequence shall identify authorised intent, target, version, validity interval, preconditions, expected state change, irreversible effects and required review.	UNSET
2. Before release, verify actual authority, configuration compatibility and sufficiently current state evidence.	UNSET
3. Success of a syntax check shall not establish physical suitability.	UNSET

Verify: Review selected command records and challenge stale-state and wrong-target preconditions safely.

Acceptance: All prescribed preconditions are demonstrated and the command remains within approved mission authority; otherwise release is blocked.

Evidence / method / parameter / sample references and limits

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67.3 — Receipt, execution and completion

Source: AF-AST-STD-001 / FIRST EDITION, p. 98; exact source subclause 67.3.

1. The record shall distinguish command prepared, approved, transmitted, received, accepted, started, completed, failed and unknown.	UNSET
2. A transmission log or acknowledgement shall not be treated as verified physical completion.	UNSET
3. Completion criteria shall identify telemetry or other evidence, timing, confidence limits and independent checks needed for the actual action.	UNSET

Verify: Trace a command through its full event and evidence history.

Acceptance: Only evidence satisfying the approved completion predicate supports completed status; missing terminal evidence remains unknown or partial.

Evidence / method / parameter / sample references and limits

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67.4 — Planning and conflicts

Source: AF-AST-STD-001 / FIRST EDITION, p. 98; exact source subclause 67.4.

1. Mission plans shall allocate communication, power, thermal, pointing, staffing, observation and maintenance resources and identify prohibited overlaps.	UNSET
2. Concurrent activities shall be reviewed for coupled effects and common reserves.	UNSET
3. Planning tools shall be validated against known-answer, conflict, capacity and missing-input scenarios.	UNSET
4. A scheduled activity shall not be marked executed merely because its time slot elapsed.	UNSET

Verify: Independently reconcile a representative plan and its actual execution log.

Acceptance: No essential conflict remains unresolved; actual execution and deviations are separately evidenced.

Evidence / method / parameter / sample references and limits

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67.5 — Personnel, handover and remote support

Source: AF-AST-STD-001 / FIRST EDITION, p. 99; exact source subclause 67.5.

1. Shift and provider handovers shall state current asset condition, unresolved anomalies, active constraints, commands in progress, planned irreversible actions, evidence gaps and actual authority.	UNSET
2. Duty personnel shall have competence for their assigned mission and available specialist support.	UNSET
3. A named on-call role without demonstrated availability shall not count as response capability.	UNSET

Verify: Observe a representative handover and verify access, competence and acknowledgement.

Acceptance: The receiving team acknowledges the complete active state and responsibilities before assuming authority.

Evidence / method / parameter / sample references and limits

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67.6 — Anomaly response and safe restoration

Source: AF-AST-STD-001 / FIRST EDITION, p. 99; exact source subclause 67.6.

1. The operations team shall classify anomalies, preserve raw evidence, control affected commands and follow authorised mission-specific protective procedures.	UNSET
2. Restoration shall establish current physical and digital state, cause disposition, remaining restrictions and separate technical return authority.	UNSET
3. A restarted computer or renewed communication link does not prove that the spacecraft or remote process is safe to resume.	UNSET

Verify: Examine adverse rehearsals and actual restoration records where available.

Acceptance: Required state, integrity and protection checks pass before resumed dependent action; unresolved essential uncertainty retains a restriction.

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67.7 — Rehearsal and independent readiness

Source: AF-AST-STD-001 / FIRST EDITION, p. 99; exact source subclause 67.7.

1. Mission readiness shall include representative end-to-end rehearsal across flight configuration, ground systems, people, networks, delays, external support and abnormal conditions.	UNSET
2. Synthetic data shall be labelled.	UNSET
3. Failures shall be retained, corrected and retested with the original failing cases.	UNSET
4. Independent readiness shall state the exact demonstrated configuration and remaining limits.	UNSET

Verify: Compare the rehearsal matrix, observations, corrections and re-execution evidence.

Acceptance: Every required readiness scenario passes or is excluded through a valid scope limitation; no scripted demonstration is claimed as a completed mission.

Evidence / method / parameter / sample references and limits

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68 — Constellations, traffic interfaces and orbital stewardship

68.1 — Fleet membership and common dependencies

Source: AF-AST-STD-001 / FIRST EDITION, p. 100; exact source subclause 68.1.

1. Maintain the identity, configuration, ownership, status and responsible control function for each fleet member.	UNSET
2. Identify shared software, ground infrastructure, suppliers, communication paths, operational procedures and resource constraints.	UNSET
3. A result for one satellite shall not be copied to an entire constellation without a demonstrated similarity and coverage argument.	UNSET

Verify: Reconcile fleet and configuration records with actual membership and service commitments.

Acceptance: All included assets and common-cause dependencies are identified; unsupported members remain outside the granted scope.

Evidence / method / parameter / sample references and limits

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68.2 — Distributed function and degradation

Source: AF-AST-STD-001 / FIRST EDITION, p. 100; exact source subclause 68.2.

1. Define the collective service, required contribution of each element, acceptable degradation, reconfiguration authority and conditions for withdrawal.	UNSET
2. Verification shall address loss, stale state, conflicting leadership, corrupted shared data and simultaneous failure of common services.	UNSET
3. A large number of assets shall not be interpreted as independent redundancy without evidence.	UNSET

Verify: Test representative distributed-service and common-cause scenarios.

Acceptance: The specified service and protective behaviour meet approved predicates; aggregate uptime does not conceal an essential degraded-state failure.

Evidence / method / parameter / sample references and limits

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68.3 — Tracking and conjunction-information quality

Source: AF-AST-STD-001 / FIRST EDITION, p. 100; exact source subclause 68.3.

1. Tracking and conjunction-support data shall retain source, age, frame, epoch, covariance, hard-body assumptions where used, quality indicators and domain of validity.	UNSET
2. The responsible function shall assess data sufficiency before relying on a probability or miss-distance result.	UNSET
3. Screening volume, alert threshold and operational decision thresholds shall remain distinct and prospectively defined.	UNSET

Verify: Review data lineage, uncertainty and method validity; challenge stale and inconsistent source cases.

Acceptance: The data and model support the intended decision. Unsupported collision-probability estimates remain HOLD, not reassuring zero values.

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68.4 — Coordination and consent

Source: AF-AST-STD-001 / FIRST EDITION, p. 100; exact source subclause 68.4.

1. Coordination procedures shall identify counterparties, contact reliability, authority, message meaning, acknowledgement and conflicting assumptions.	UNSET
2. Receipt of a coordination message shall not be treated as consent to an operation or proof that the other party will act.	UNSET
3. Any change to a shared interface shall preserve actual responsibility and required permissions.	UNSET

Verify: Inspect communication records and representative failed-contact or contradictory-message exercises.

Acceptance: Each required acknowledgement and authority is established; unresolved coordination essential to the claim blocks that claim.

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68.5 — Debris prevention and released items

Source: AF-AST-STD-001 / FIRST EDITION, p. 101; exact source subclause 68.5.

1. The lifecycle plan shall identify intentional and potential released objects, retained energy, fragmentation risks, degradation and terminal-state responsibilities.	UNSET
2. The organisation shall define a lawful technical basis for prevention and end-of-life measures and verify their implementation for the actual configuration.	UNSET
3. A nominal mission plan shall not establish successful debris prevention or disposition.	UNSET

Verify: Review released-item inventory, risk analysis, protective evidence and closure records.

Acceptance: Every triggered prevention and terminal condition has accepted evidence; no unknown disposition is reported as completed.

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68.6 — Mission extension and terminal resources

Source: AF-AST-STD-001 / FIRST EDITION, p. 101; exact source subclause 68.6.

1. Before extending service, reassess remaining energy, support, communications, attitude capability, life, uncertainty, monitoring and resources required for terminal duties.	UNSET
2. The extension shall not consume a reserve already committed to a required protective or end-of-life function without authorised technical resolution.	UNSET
3. The decision shall preserve original life history.	UNSET

Verify: Reconcile updated budgets, remaining-life evidence and terminal feasibility.

Acceptance: Required continued-service and terminal predicates both pass; a commercially useful asset is not automatically eligible for extension.

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68.7 — Status and long-term custody

Source: AF-AST-STD-001 / FIRST EDITION, p. 101; exact source subclause 68.7.

1. Closure shall record whether an asset is operating, restricted, dormant, disposed, lost or unknown using verified evidence and defined meanings.	UNSET
2. Loss of communication shall not be labelled successful disposal.	UNSET
3. Assign remaining notices, monitoring and records to an actual custodian.	UNSET
4. A closed commercial contract does not close an unresolved technical or environmental obligation.	UNSET

Verify: Trace final-state evidence and accepted transfer of residual duties.

Acceptance: Terminal claims match observed or explicitly bounded inferred states, and every continuing duty has a receiving owner.

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69 — Servicing, docking, assembly and on-orbit interventions

69.1 — Consent and exact intervention

Source: AF-AST-STD-001 / FIRST EDITION, p. 102; exact source subclause 69.1.

1. Record participating assets, owners, consent, service objective, configuration, permitted interventions and prohibited actions.	UNSET
2. Design assurance, service-provider competence and permission for a specific operation shall remain separate.	UNSET
3. An assumed common ownership or commercial order shall not replace the actual technical authority and access rights needed for the intervention.	UNSET

Verify: Check the consent and authority chain against the declared operation and assets.

Acceptance: All required authorities and compatible scope boundaries are valid before intervention; otherwise the activity remains blocked.

Evidence / method / parameter / sample references and limits

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69.2 — Interface compatibility

Source: AF-AST-STD-001 / FIRST EDITION, p. 102; exact source subclause 69.2.

1. Define and verify relevant mechanical, structural, electrical, fluid, thermal, communications, software, timing and contamination interfaces.	UNSET
2. The evidence shall identify as-operated rather than merely as-designed configurations.	UNSET
3. Damage, ageing, unknown modifications and inspection accessibility shall be considered.	UNSET
4. Individually qualified assets shall not be assumed jointly compatible.	UNSET

Verify: Review interface-control records, difference analysis and representative integrated verification.

Acceptance: Every essential interface criterion passes for both participating configurations; unknown critical interfaces remain HOLD.

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69.3 — Relative-state and completion evidence

Source: AF-AST-STD-001 / FIRST EDITION, p. 102; exact source subclause 69.3.

1. The service plan shall define which relative states, contact conditions, connection states and completed tasks must be observed or inferred.	UNSET
2. Sensor limitations, occlusion, stale telemetry, model uncertainty and ambiguous indications shall have explicit handling.	UNSET
3. A single contact indication shall not by itself prove secure structural, electrical or fluid connection when those are separate requirements.	UNSET

Verify: Challenge incomplete and contradictory indications using authorised representative simulations or tests.

Acceptance: Each claimed state has sufficient valid evidence and meets its own predicate; ambiguous state cannot be treated as complete.

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69.4 — Interruptions and safe boundaries

Source: AF-AST-STD-001 / FIRST EDITION, p. 102; exact source subclause 69.4.

1. The assurance case shall identify safe interruption states, autonomy limits, human intervention feasibility, shared failures and irreversible actions.	UNSET
2. Recovery and abort assumptions shall be validated for the actual environment and available resources.	UNSET
3. This standard does not authorise an assessor to command an intervention or select hazardous operational parameters.	UNSET

Verify: Review the approved scenario set and evidence for required protective transitions.

Acceptance: All essential interruption and protective-state requirements are demonstrated within the authorised envelope.

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69.5 — Transferred material, energy and data

Source: AF-AST-STD-001 / FIRST EDITION, p. 103; exact source subclause 69.5.

1. Transfers shall preserve identity, quantity, units, condition, custody and eligibility of materials, consumables, energy attributes or digital products.	UNSET
2. Metering, losses, residuals and cross-contamination shall be addressed.	UNSET
3. Quantity reconciliation shall not be used as proof of chemical, mechanical or functional suitability.	UNSET
4. Receiving acceptance shall be explicit.	UNSET

Verify: Reconcile sending and receiving records and inspect suitability evidence.

Acceptance: Both identity/quantity and technical eligibility checks pass; unexplained differences or contamination keep the transfer result open.

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69.6 — Post-intervention configuration and service claim

Source: AF-AST-STD-001 / FIRST EDITION, p. 103; exact source subclause 69.6.

1. The final dossier shall state actual work, replacement items, software, repairs, observations, limitations, failed attempts, configuration and receiving authority.	UNSET
2. Verify affected functions and update maintenance, life and operating information.	UNSET
3. Partial completion shall remain partial.	UNSET
4. Service completion shall not imply recertification of the whole receiving asset or extension of its life without separate evidence.	UNSET

Verify: Review post-intervention verification and receiving acknowledgement.

Acceptance: The bounded service predicate is met, affected protections are restored and residual responsibilities are accepted.

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70 — Launch, re-entry, reuse and ground-interface assurance

70.1 — Distinct release objects

Source: AF-AST-STD-001 / FIRST EDITION, p. 104; exact source subclause 70.1.

1. The profile shall distinguish vehicle design, payload integration, site capability, mission readiness, individual operating permission and recovery capability.	UNSET
2. Each object shall identify responsible entity, configuration, environment, evidence and decision authority.	UNSET
3. A spaceport capability result shall not release a vehicle or a specific launch.	UNSET

Verify: Compare all requested results with their actual evidence and authority paths.

Acceptance: No merged or unbounded approval is issued; each required object-specific gate is independently supported.

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70.2 — Integrated environment and interface verification

Source: AF-AST-STD-001 / FIRST EDITION, p. 104; exact source subclause 70.2.

1. Integration shall address actual handling, transport, mounting, loading, acoustic, dynamic, thermal, electrical, data, separation and contamination interfaces.	UNSET
2. Verification shall use approved mission-specific conditions and representative fixtures and configurations.	UNSET
3. Previously accepted payloads shall be reassessed when interface conditions or launch-service assumptions change.	UNSET

Verify: Reconcile interface and environment matrices with qualification, acceptance and delivered configuration.

Acceptance: All required interface criteria are met; undeclared differences or missing essential demonstrations block integrated acceptance.

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70.3 — Test and hazardous-work readiness

Source: AF-AST-STD-001 / FIRST EDITION, p. 104; exact source subclause 70.3.

1. Before consequential tests, verify competent authorised performers, approved procedures, protected facilities, instrumentation, exclusion boundaries, independent checks and stop authority.	UNSET
2. Technical acceptance limits and protective shutdown limits shall be separate.	UNSET
3. No universal energetic, pressure or thermal operating values are supplied by this standard.	UNSET

Verify: Inspect real readiness records and safe witnessing arrangements.

Acceptance: All prerequisite protections and measurement capabilities exist before testing; missing permissions or protective functions prohibit the activity.

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70.4 — Reuse and cumulative history

Source: AF-AST-STD-001 / FIRST EDITION, p. 104; exact source subclause 70.4.

1. Reusable structures, mechanisms, thermal protection, tanks, energy systems and electronics shall retain actual use, exposure, storage, damage, repairs, refurbishment and replacement history.	UNSET
2. Eligibility shall rely on validated inspection and degradation models for the particular item.	UNSET
3. A successful prior flight or a cosmetically restored surface shall not reset life or close hidden damage uncertainty.	UNSET

Verify: Trace item history to approved reuse criteria and measured condition.

Acceptance: All required life and condition predicates pass; missing critical history or inaccessible required inspection blocks reuse acceptance.

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70.5 — Return, landing and recovery interfaces

Source: AF-AST-STD-001 / FIRST EDITION, p. 105; exact source subclause 70.5.

1. The return assurance case shall identify entry, descent, landing, retrieval, containment, transport and receiving duties within the declared responsibility.	UNSET
2. Define expected observations and evidence of completion, including unreachable, partial and uncertain outcomes.	UNSET
3. Public safety, environmental and controlled-material permissions shall be separately confirmed.	UNSET

Verify: Review the approved return/recovery dossier, communication and custody arrangements.

Acceptance: The stated return or recovery claim has sufficient actual evidence; a planned route or lost signal cannot be reported as successful completion.

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70.6 — Readiness decision and post-event learning

Source: AF-AST-STD-001 / FIRST EDITION, p. 105; exact source subclause 70.6.

1. Before commitment, reconcile configuration, qualification, ground readiness, people, support, open anomalies and required terminal resources.	UNSET
2. After the event, preserve original observations, failures and near misses and assess consequences for subsequent vehicles and payloads.	UNSET
3. Schedule pressure shall not downgrade a blocking finding.	UNSET

Verify: Independently review the frozen pre-event dossier and subsequent anomaly-to-population analysis.

Acceptance: Every essential gate passes at the actual commitment time; later success does not legitimise an unsupported earlier release.

Evidence / method / parameter / sample references and limits

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71 — Lunar, planetary, small-body and ocean-world systems

71.1 — Destination-specific conditions

Source: AF-AST-STD-001 / FIRST EDITION, p. 106; exact source subclause 71.1.

1. Define the actual body or environment, region, season or illumination assumptions, terrain, atmosphere, pressure, temperature, radiation, dust, electrostatic effects, gravity and access limitations.	UNSET
2. The profile shall separate measured conditions from inferred and unknown conditions.	UNSET
3. A terrestrial, lunar or planetary analogy shall not establish a universal environment specification.	UNSET

Verify: Examine destination/region assumptions, uncertainty and required evidence.

Acceptance: All essential environmental inputs are bounded for the declared mission; missing critical environmental knowledge retains a development or restricted status.

Evidence / method / parameter / sample references and limits

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71.2 — Surface mobility and interaction

Source: AF-AST-STD-001 / FIRST EDITION, p. 106; exact source subclause 71.2.

1. Mobility assurance shall define load, terrain interaction, traction or anchoring, stability, dust effects, sensing, energy, thermal behaviour and recoverability relevant to the actual vehicle.	UNSET
2. Representative tests shall identify differences in gravity, soil or surface material, pressure and scale.	UNSET
3. A laboratory traverse shall not be equated with full mission access or survivability.	UNSET

Verify: Review integrated mobility and resource tests and the justified analogue-transfer argument.

Acceptance: Required mobility and protective-state predicates pass for the approved envelope; unsupported terrain classes remain excluded.

Evidence / method / parameter / sample references and limits

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71.3 — Atmospheric and buoyant exploration

Source: AF-AST-STD-001 / FIRST EDITION, p. 106; exact source subclause 71.3.

1. Atmospheric vehicles shall have defined environmental profiles, materials, structural, buoyancy or flight functions, energy, communication and terminal responsibilities.	UNSET
2. Pressure, composition, corrosion, turbulence and inaccessible maintenance shall be considered when triggered.	UNSET
3. Airworthiness or site results from a different planetary or terrestrial context shall not be inherited without technical justification.	UNSET

Verify: Review environment-specific material, structural and functional qualification and data validity.

Acceptance: Every essential environmental and functional condition is supported for the stated domain; unvalidated atmosphere assumptions block broader claims.

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71.4 — Subsurface and ocean-world interfaces

Source: AF-AST-STD-001 / FIRST EDITION, p. 106; exact source subclause 71.4.

1. Subsurface or liquid-environment exploration shall identify pressure, thermal, chemical, access, communication, containment and biological/scientific contamination concerns.	UNSET
2. Verify boundary integrity, sensor observability, retrieval assumptions and evidence custody without providing hazardous access procedures.	UNSET
3. A surface-system qualification shall not establish suitability for submerged or subsurface duty.	UNSET

Verify: Review pressure-boundary and environmental evidence through authorised specialist assessment.

Acceptance: All triggered boundary, protection and observation predicates pass; uncertain containment or retrieval capability remains explicitly restricted.

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71.5 — Long darkness and resource interruption

Source: AF-AST-STD-001 / FIRST EDITION, p. 107; exact source subclause 71.5.

1. Mission planning shall identify darkness, unavailable recharge, thermal survival, communications gaps and delayed resupply.	UNSET
2. Energy and consumable reserves shall include degradation, uncertainty, interruptions and terminal duties.	UNSET
3. Restart after dormancy shall verify state and protection, not only a successful boot.	UNSET

Verify: Recalculate resource and survival budgets and review representative dormant/restart tests.

Acceptance: All required survival and recovery conditions meet approved criteria without double-counted reserves; missing state evidence keeps restart dependent actions held.

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71.6 — Construction and surface infrastructure

Source: AF-AST-STD-001 / FIRST EDITION, p. 107; exact source subclause 71.6.

1. Habitats, pads, utilities, handling systems, civil works and resource facilities shall have a defined design and environment basis, material provenance, site assumptions, inspection strategy and acceptance authority.	UNSET
2. Hidden work and critical interfaces shall be verified before concealment.	UNSET
3. Demonstrating a manufacturing technique shall not establish readiness of an integrated surface installation.	UNSET

Verify: Trace design and material records through construction, commissioning and receiving acceptance.

Acceptance: Every essential structural, utility, environmental and operational interface has valid completion evidence before use.

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71.7 — Autonomy and limited intervention

Source: AF-AST-STD-001 / FIRST EDITION, p. 107; exact source subclause 71.7.

1. Autonomous surface work shall define sensing coverage, permitted domain, adaptation limits, command authority, safe cessation and human intervention feasibility.	UNSET
2. Validation shall include occlusion, unfamiliar conditions, delayed information, partial execution and loss of a shared resource.	UNSET
3. Human oversight shall not be credited when delay or observability prevents meaningful intervention.	UNSET

Verify: Challenge the approved autonomous envelope and required protective transitions.

Acceptance: All essential scenarios pass; out-of-domain behaviour is limited or stopped under the approved protective design.

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71.8 — Completion, samples and remaining duties

Source: AF-AST-STD-001 / FIRST EDITION, p. 107; exact source subclause 71.8.

1. The mission dossier shall distinguish science acquisition, engineering demonstration, collected sample custody, completed construction, final asset state and environmental closure.	UNSET
2. Unreachable assets shall retain a stated confidence basis and unknowns.	UNSET
3. Responsibilities for contamination, residues, hazardous inventories and interpreting long-term records shall survive mission and supplier closure.	UNSET

Verify: Review final-state evidence, sample manifests and accepted residual-duty assignments.

Acceptance: Each conclusion is limited to its demonstrated object and evidence; no lost contact or incomplete transfer is relabelled as complete closure.

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72 — Deep-space, solar and long-duration exploration

72.1 — Time horizon and recoverability

Source: AF-AST-STD-001 / FIRST EDITION, p. 108; exact source subclause 72.1.

1. The mission basis shall define duration, distance-dependent communication, resource evolution, repairability, replacement feasibility and the period over which responsibility and evidence must remain usable.	UNSET
2. A planned future repair, relay or supplier service shall not be credited as available without supported commitments and a demonstrated capability basis.	UNSET

Verify: Review life and support assumptions against mission phases and credible loss cases.

Acceptance: Essential mission and protective functions remain supported for the declared duration; speculative future services are not favourable defaults.

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72.2 — Solar and extreme thermal exposure

Source: AF-AST-STD-001 / FIRST EDITION, p. 108; exact source subclause 72.2.

1. Solar, close-body and thermal-extreme missions shall define time-varying flux, geometry, shadowing, surface properties, degradation and transient response.	UNSET
2. Protection shall be qualified at the relevant material, assembly and system levels.	UNSET
3. Inverse-square screening and steady-state radiation equations are only applicable within their stated assumptions and do not close transient or coupled behaviour.	UNSET

Verify: Review environment-specific models, uncertainty, qualified materials and correlated tests.

Acceptance: Required temperature, gradient, integrity and functional limits are met throughout the approved envelope; unexamined coupled effects remain HOLD.

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72.3 — Low-flux and limited-power missions

Source: AF-AST-STD-001 / FIRST EDITION, p. 108; exact source subclause 72.3.

1. Distant missions shall evaluate end-of-life generation, storage, conversion, thermal support, communication and command survival concurrently.	UNSET
2. Prioritised load shedding and dormant modes shall have validated authority and state-recovery rules.	UNSET
3. Average energy sufficiency shall not hide a time-local peak or thermal survival failure.	UNSET

Verify: Reconcile resource profiles and perform representative low-resource and recovery verification.

Acceptance: Every essential resource and protection predicate passes; unavailable generation or unsupported recovery is not treated as normal service.

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72.4 — Autonomy during long communication delay

Source: AF-AST-STD-001 / FIRST EDITION, p. 108; exact source subclause 72.4.

1. The mission shall identify decisions that cannot wait for ground response and bound the authority assigned to onboard functions.	UNSET
2. Validation shall account for delayed or unavailable external information, model mismatch, finite stored procedures and safe terminal behaviour.	UNSET
3. Ground approval received after the hazardous event would occur is not an effective preventive control.	UNSET

Verify: Evaluate latency arithmetic and scenario-based autonomous response evidence.

Acceptance: Protective authority is executable within the approved response time; otherwise redesign, restriction or additional evidence is required.

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72.5 — Ageing and long-term digital support

Source: AF-AST-STD-001 / FIRST EDITION, p. 108; exact source subclause 72.5.

1. The assurance plan shall address materials ageing, accumulated environment, clock stability, memory integrity, software dependencies, obsolete tools, lost expertise and cryptographic migration.	UNSET
2. Preserve executable or reconstructable models and interpretable data dictionaries.	UNSET
3. Availability of a signed file does not establish its future readability or the continued correctness of its engineering meaning.	UNSET

Verify: Review long-life evidence and test migration, recovery and independent reconstruction.

Acceptance: Essential historical and current evidence remains usable and required support has accepted continuity arrangements.

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72.6 — Scientific instruments and observation integrity

Source: AF-AST-STD-001 / FIRST EDITION, p. 109; exact source subclause 72.6.

1. Observation claims shall identify instrument calibration, alignment, background effects, processing, timing, uncertainty and data-loss conditions.	UNSET
2. Engineering acceptance of an instrument shall be separated from a scientific inference from its output.	UNSET
3. Changes in reduction software shall retain earlier processing and the reason for differences.	UNSET

Verify: Reprocess a representative observation from identified source data and calibration.

Acceptance: The stated technical data-quality criteria are met; disputed scientific interpretation is not declared certain by an ASTRA engineering result.

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72.7 — Future-domain feasibility and responsible closure

Source: AF-AST-STD-001 / FIRST EDITION, p. 109; exact source subclause 72.7.

1. Very long-range or novel propulsion and infrastructure concepts shall identify what has actually been demonstrated and what remains theoretical or unvalidated.	UNSET
2. Requirements may define a future scope, but no operational capability shall be granted from aspiration alone.	UNSET
3. The final record shall preserve terminal-state uncertainty, remaining obligations and custody after active support ends.	UNSET

Verify: Review demonstration-state claims, technical gaps and actual terminal evidence.

Acceptance: Only the demonstrated bounded capability is recognised; speculative performance and unknown final states remain clearly identified.

Evidence / method / parameter / sample references and limits

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73 — Human flight, habitats and extravehicular systems

73.1 — Population, mission and human tasks

Source: AF-AST-STD-001 / FIRST EDITION, p. 110; exact source subclause 73.1.

1. Define intended occupants, roles, mission duration, environmental conditions, physical access, workload, communication and reasonable variation in users.	UNSET
2. Identify essential tasks and protective actions.	UNSET
3. Validation shall state participant representativeness, assistance, training and limitations; one expert demonstration shall not establish capability for all users.	UNSET

Verify: Review the user/task matrix and representative normal and degraded validation.

Acceptance: Each essential task is demonstrated under its approved conditions; unsupported populations and tasks are excluded from the claim.

Evidence / method / parameter / sample references and limits

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73.2 — Integrated life support

Source: AF-AST-STD-001 / FIRST EDITION, p. 110; exact source subclause 73.2.

1. Life-support requirements shall identify atmospheric, water, waste, temperature, humidity, monitoring, consumable and power interfaces appropriate to the mission.	UNSET
2. Substance-specific and physiological limits shall be set by the competent actual technical and health authorities before use.	UNSET
3. Do not infer safe habitat conditions from a single sensor or from nominal supplies.	UNSET
4. The profile shall identify correlated and common-resource failures.	UNSET

Verify: Review integrated requirements, monitored quantities, sensor validity and contingency tests.

Acceptance: Every required environmental and protective predicate is met; unspecified health limits or unverified essential monitoring block acceptance.

Evidence / method / parameter / sample references and limits

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73.3 — Consumables and survival time

Source: AF-AST-STD-001 / FIRST EDITION, p. 110; exact source subclause 73.3.

1. Resource accounting shall separate usable inventory, delivery losses, recovery efficiency, degradation, uncertainty, crew demand, emergency reserves and terminal obligations.	UNSET
2. A theoretical recycling rate shall not replace demonstrated system recovery and quality.	UNSET
3. Define the elapsed time to protective intervention and compare it with supported remaining resources.	UNSET
4. Annex AM provides arithmetic examples, not crew-consumption prescriptions.	UNSET

Verify: Recompute balances and check source data, quality and concurrent reserve allocations.

Acceptance: All approved reserve and survival predicates pass; quantity sufficiency does not compensate for unsuitable water, atmosphere or other supplies.

Evidence / method / parameter / sample references and limits

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73.4 — Habitat integrity and interfaces

Source: AF-AST-STD-001 / FIRST EDITION, p. 110; exact source subclause 73.4.

1. Habitat assurance shall address structural and pressure boundaries, penetrations, connections, fire behaviour, contamination, accessibility, maintenance and emergency compartments where applicable.	UNSET
2. Hidden work shall have acceptance evidence before concealment.	UNSET
3. Payload and visiting-system interfaces shall not compromise life support or escape assumptions.	UNSET
4. Structural or habitat acceptance is not a medical clearance.	UNSET

Verify: Inspect configuration-specific boundary and integrated protective evidence.

Acceptance: All essential integrity and interface conditions pass; an unknown boundary or incompatible visiting configuration blocks occupancy-dependent acceptance.

Evidence / method / parameter / sample references and limits

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73.5 — Human factors and effective authority

Source: AF-AST-STD-001 / FIRST EDITION, p. 111; exact source subclause 73.5.

1. Displays, alerts and procedures shall identify state, urgency, limitations and required actions without ambiguous mode or priority.	UNSET
2. Workload, fatigue, interruptions, language, delayed feedback and automation bias shall be evaluated.	UNSET
3. A manual override is an effective control only when a person has the information, time, training and physical or technical ability to use it.	UNSET

Verify: Observe representative task and intervention performance, including misleading and degraded information.

Acceptance: Every essential response passes independently; aggregate usability scores do not offset a failed protective task.

Evidence / method / parameter / sample references and limits

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73.6 — Extravehicular activity and individual equipment

Source: AF-AST-STD-001 / FIRST EDITION, p. 111; exact source subclause 73.6.

1. The profile shall define the equipment configuration, user/task, environment, interfaces, life, inspections, consumables, communications and rescue dependencies for extravehicular or analogous isolated work.	UNSET
2. Suit, vehicle, habitat and support equipment shall be evaluated as an integrated system.	UNSET
3. This standard does not prescribe physiological exposure or hazardous operating sequences.	UNSET

Verify: Review qualified equipment, user fit/task evidence and integrated emergency interfaces.

Acceptance: All relevant configuration and protective criteria pass, with actual specialist authority and supported rescue or survival assumptions.

Evidence / method / parameter / sample references and limits

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73.7 — Medical capability and health-data boundaries

Source: AF-AST-STD-001 / FIRST EDITION, p. 111; exact source subclause 73.7.

1. The mission shall identify the qualified health functions, equipment and support access required for its actual population and duration.	UNSET
2. Engineering assurance shall verify availability, integration, power, maintenance, communication and privacy without inventing treatment protocols or clinical certification.	UNSET
3. Health information shall be restricted to authorised purposes and handled separately from public conformity records.	UNSET

Verify: Check actual health-support arrangements, equipment integration and protected data access.

Acceptance: Required support functions are demonstrably available and usable within the mission limits; undocumented specialist capacity is not credited.

Evidence / method / parameter / sample references and limits

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73.8 — Emergency, refuge and safe return

Source: AF-AST-STD-001 / FIRST EDITION, p. 111; exact source subclause 73.8.

1. Emergency planning shall define scenario, detection, decision time, protection, refuge or return assumptions, rescue interfaces and actual resources.	UNSET
2. A cooperation agreement shall not count as demonstrated response capability without compatible personnel, access, equipment and timing.	UNSET
3. Exercises shall distinguish tabletop review from operational demonstration and shall remain safe.	UNSET

Verify: Assess scenario-specific exercise and resource evidence and independently check timing feasibility.

Acceptance: Every required protective pathway is supported; infeasible response or unavailable essential resources block the dependent human-mission claim.

Evidence / method / parameter / sample references and limits

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74 — Planetary protection, sample return and scientific integrity

74.1 — Mission-specific protection classification

Source: AF-AST-STD-001 / FIRST EDITION, p. 112; exact source subclause 74.1.

1. The responsible function shall identify destinations, return paths, scientific objectives, exposed materials, biological payloads and applicable protection duties.	UNSET
2. Forward contamination, backward contamination and scientific interference shall be assessed separately.	UNSET
3. The selected obligations and technical criteria shall be documented before mission or facility design decisions that depend on them.	UNSET

Verify: Review destination, pathway and consequence analysis with qualified independent specialists.

Acceptance: Every triggered protection duty has an explicit owner, criterion and verification path; an undefined classification remains HOLD.

Evidence / method / parameter / sample references and limits

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74.2 — Contamination pathways and control allocation

Source: AF-AST-STD-001 / FIRST EDITION, p. 112; exact source subclause 74.2.

1. Map contamination sources, transport pathways, contact interfaces, releases and receiving environments across manufacture, test, integration, operation, collection, return and disposition.	UNSET
2. Allocate controls to actual performers and preserve interface assumptions.	UNSET
3. A cleaning or containment declaration shall not establish effectiveness without method-specific evidence for the relevant material and pathway.	UNSET

Verify: Inspect the pathway map and validated evidence for each relied-upon control.

Acceptance: All essential pathways are controlled to the approved technical basis; inaccessible required evidence prevents a favourable conclusion.

Evidence / method / parameter / sample references and limits

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74.3 — Scientific cleanliness and background

Source: AF-AST-STD-001 / FIRST EDITION, p. 112; exact source subclause 74.3.

1. Define species, particulates, molecular residues or other backgrounds capable of affecting the specific measurement.	UNSET
2. Reference samples, witness materials, blanks, calibration and contamination history shall have traceable identity and handling.	UNSET
3. A broad cleanliness classification shall not establish suitability for an instrument with a different detection limit or scientific objective.	UNSET

Verify: Review measurement-specific contamination budgets and actual verification results.

Acceptance: Required cleanliness and background predicates pass within method uncertainty; uncharacterised contamination remains a limitation on the affected output.

Evidence / method / parameter / sample references and limits

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74.4 — Sample identity and custody

Source: AF-AST-STD-001 / FIRST EDITION, p. 112; exact source subclause 74.4.

1. Each sample shall retain origin description, collection event, container, seal or interface identity, mass or quantity where known, conditions, contamination history, transfers, subdivisions and authorised access.	UNSET
2. Unknown provenance shall remain unknown.	UNSET
3. Splitting or pooling shall preserve parent-child links and shall not create duplicate inventories.	UNSET

Verify: Reconcile original collection, custody, receiving and subdivision records.

Acceptance: The sample and its history are unambiguous and usable for the claimed purpose; missing essential links block the dependent sample conclusion.

Evidence / method / parameter / sample references and limits

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74.5 — Return-chain containment and receiving readiness

Source: AF-AST-STD-001 / FIRST EDITION, p. 113; exact source subclause 74.5.

1. Where containment or restricted receiving applies, verify compatible transport, return vehicle, retrieval, custody, receiving facility, authorised personnel and contingency arrangements.	UNSET
2. The profile shall define the evidence needed to establish boundary integrity and safe transfer without specifying hazardous treatment methods.	UNSET
3. A ready spacecraft does not establish readiness of an absent receiving facility.	UNSET

Verify: Review the complete return-to-receiving chain and authorised representative integrity demonstrations.

Acceptance: Every essential interface and receiving capability is accepted before dependent return commitments; otherwise the chain remains incomplete.

Evidence / method / parameter / sample references and limits

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74.6 — Anomalies, unknown state and release of information

Source: AF-AST-STD-001 / FIRST EDITION, p. 113; exact source subclause 74.6.

1. Loss of containment indication, unverified seal condition, missing samples or unexplained contamination shall trigger preservation, restriction and qualified review.	UNSET
2. Do not equate absent alarms with demonstrated integrity.	UNSET
3. Technical data and scientific interpretations shall retain limitations; public statements shall not imply a sample is harmless or pristine solely because its custody form is complete.	UNSET

Verify: Examine anomaly decisions, actual observations and bounded reporting.

Acceptance: Only supported technical conclusions are released; uncertainty and unresolved protection duties remain visible.

Evidence / method / parameter / sample references and limits

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74.7 — Disposition and residual responsibility

Source: AF-AST-STD-001 / FIRST EDITION, p. 113; exact source subclause 74.7.

1. Final disposition shall identify sample, container, residue, facility, record and long-term custody obligations.	UNSET
2. Transfer shall include receiving acceptance and usable evidence.	UNSET
3. Mission completion shall not terminate a continuing protection or scientific-record duty.	UNSET
4. The custodian shall preserve genuine access conditions and correction channels after organisational closure.	UNSET

Verify: Trace final-state evidence and accepted residual duties.

Acceptance: No required custody or protection obligation is abandoned and no unverified disposal is claimed complete.

Evidence / method / parameter / sample references and limits

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75 — In-space manufacture, resource use and logistics

75.1 — Process purpose and environment

Source: AF-AST-STD-001 / FIRST EDITION, p. 114; exact source subclause 75.1.

1. Define intended output, material properties, environment, equipment, software, tooling, personnel or autonomous role, inspection access and downstream use.	UNSET
2. Distinguish research yield, qualified process capability and product acceptance.	UNSET
3. A terrestrial qualification shall not automatically transfer to a different gravity, vacuum, thermal, contamination or radiation environment.	UNSET

Verify: Review environment differences and the process-to-property qualification argument.

Acceptance: All essential output properties and influential conditions have an approved evidence path; unsupported transfer remains HOLD.

Evidence / method / parameter / sample references and limits

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75.2 — Inputs, feedstock and source variability

Source: AF-AST-STD-001 / FIRST EDITION, p. 114; exact source subclause 75.2.

1. Retain origin, composition or material type, condition, contamination, storage, reuse, mixing and representative property evidence for feedstock.	UNSET
2. Local or recovered resources shall have a characterised variability and sampling basis.	UNSET
3. A claimed resource abundance shall not establish usable quantity or technical eligibility.	UNSET
4. Source substitution shall be assessed before use.	UNSET

Verify: Trace input lots and samples to process runs and accepted property evidence.

Acceptance: Input identity and suitability meet approved criteria; uncertain composition or life history is not replaced by a nominal source label.

Evidence / method / parameter / sample references and limits

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75.3 — Essential variables and remote monitoring

Source: AF-AST-STD-001 / FIRST EDITION, p. 114; exact source subclause 75.3.

1. The qualified envelope shall identify influential variables, combinations, tolerances, monitoring performance and reaction rules.	UNSET
2. Retain actual variable histories, interruptions and sensor gaps by output identity.	UNSET
3. Remote telemetry shall support acceptance only for properties and mechanisms demonstrated to be observable or validly inferred.	UNSET
4. A successful process command does not prove the intended material transformation occurred.	UNSET

Verify: Review representative qualification, sensor/model validation and raw production history.

Acceptance: All required variables and output characteristics are supported; an unobservable essential property requires additional evidence or a restricted outcome.

Evidence / method / parameter / sample references and limits

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75.4 — Yield, mass balance and circularity

Source: AF-AST-STD-001 / FIRST EDITION, p. 114; exact source subclause 75.4.

1. Material accounting shall separate input, good output, reject, sample consumption, process loss, recovered material, work in progress and unknown difference.	UNSET
2. Internal recirculation shall not be counted repeatedly as new resource production.	UNSET
3. Mass closure and yield are different measures; neither proves safety or material performance.	UNSET
4. Units and measurement uncertainty shall be explicit.	UNSET

Verify: Independently reconcile the material ledger and separately review quality acceptance.

Acceptance: Balances meet the approved uncertainty-based criterion and all claimed good output is technically accepted; unexplained losses or duplicate recovery remain open.

Evidence / method / parameter / sample references and limits

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75.5 — Logistics, storage and compatibility

Source: AF-AST-STD-001 / FIRST EDITION, p. 115; exact source subclause 75.5.

1. Logistics shall preserve item identity, custody, configuration, life, condition and applicable environmental exposure through packaging, handling, transport, transfer and storage.	UNSET
2. Receiving systems shall confirm mechanical, fluid, electrical, data and contamination compatibility where relevant.	UNSET
3. Planned delivery shall not be counted as physically received usable inventory.	UNSET

Verify: Inspect the complete shipment and receiving chain, including excursions and damage.

Acceptance: Only accepted usable inventory enters mission budgets; unknown or restricted items are segregated in both physical and digital records.

Evidence / method / parameter / sample references and limits

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75.6 — Maintenance, spares and distributed production

Source: AF-AST-STD-001 / FIRST EDITION, p. 115; exact source subclause 75.6.

1. On-demand or remote production of replacement parts shall satisfy the same applicable design, material, process and acceptance requirements as other sources.	UNSET
2. Digital files, authorised build configuration, inspection capability and life history shall be controlled.	UNSET
3. A successfully printed shape shall not establish structural, electrical or environmental suitability.	UNSET
4. Missing original supply does not waive qualification.	UNSET

Verify: Review replacement authorisation, production genealogy and configuration-specific verification.

Acceptance: Every essential replacement predicate passes before use; unsupported functional or life equivalence is prohibited.

Evidence / method / parameter / sample references and limits

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75.7 — Handover, resource claims and closure

Source: AF-AST-STD-001 / FIRST EDITION, p. 115; exact source subclause 75.7.

1. The final claim shall state actual production, quality, quantity, conditions, uncertainty, exclusions and accepted receiving responsibility.	UNSET
2. Demonstration of a resource process creates no ownership, extraction right or operating permission.	UNSET
3. Waste, residues, hazardous inventories and long-term custody shall have accepted disposition.	UNSET

Verify: Reconcile reported outputs, accepted products, rights/permissions and final-state evidence.

Acceptance: The claim is bounded to measured and accepted achievement; undeveloped scale-up and unknown disposition remain separate.

Evidence / method / parameter / sample references and limits

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76 — Space energy infrastructure and specialised power oversight

76.1 — System boundary and conversion chain

Source: AF-AST-STD-001 / FIRST EDITION, p. 116; exact source subclause 76.1.

1. Define energy source, conversion, storage, distribution, loads, interfaces, heat rejection and terminal duties.	UNSET
2. Identify normal and degraded states, common dependencies, exposure and maintenance accessibility.	UNSET
3. Component efficiency or nameplate power shall not be represented as available end-to-end service capability.	UNSET

Verify: Trace energy and thermal balances across the actual architecture and conditions.

Acceptance: Every essential stage and interface meets approved functional and protective requirements.

Evidence / method / parameter / sample references and limits

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76.2 — Beamed and remote energy services

Source: AF-AST-STD-001 / FIRST EDITION, p. 116; exact source subclause 76.2.

1. A remote energy-service profile shall identify transmitter, receiver, conversion, alignment, intervening environment, control authority and protection of unintended recipients.	UNSET
2. The assurance case shall address wrong-target, lost-tracking, interrupted-service and emergency shutdown conditions through authorised safe demonstrations.	UNSET
3. A received-power measurement alone shall not close protection or permission requirements.	UNSET

Verify: Review written scope, compatible interfaces, performance evidence and safe protective tests.

Acceptance: Delivery and all triggered protective predicates pass; no hazardous or unauthorised operation is justified by a positive efficiency value.

Evidence / method / parameter / sample references and limits

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76.3 — Cryogenic, chemical and pressure interfaces

Source: AF-AST-STD-001 / FIRST EDITION, p. 116; exact source subclause 76.3.

1. Specialised energy storage and transfer shall define relevant material compatibility, containment, thermal behaviour, quality, monitoring, protective isolation and emergency interfaces.	UNSET
2. Actual pressure, composition, exposure and handling limits shall be approved by competent specialists for the specific system.	UNSET
3. This publication shall not be used as an operating procedure.	UNSET

Verify: Review authorised technical basis, qualification, inspection and integration evidence.

Acceptance: Every essential containment and protection condition is supported; missing hazardous-work authority blocks the activity.

Evidence / method / parameter / sample references and limits

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76.4 — Nuclear and radiation-source governance

Source: AF-AST-STD-001 / FIRST EDITION, p. 116; exact source subclause 76.4.

1. Where a mission uses a nuclear or other controlled radiation source, the organisation shall identify the actual competent authorities, permissions, safety case, transport, launch/operation interfaces, security, emergency responsibilities and end-of-life duties.	UNSET
2. Independent specialist access shall be sufficient for the bounded evaluation.	UNSET
3. ASTRA shall not grant source-handling, reactor-design or public-safety permission.	UNSET

Verify: Verify the existence, scope and authenticity of required specialist approvals and integration evidence.

Acceptance: All relevant permissions and assurance interfaces are complete; a generic aerospace credential cannot substitute for them.

Evidence / method / parameter / sample references and limits

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76.5 — Infrastructure availability and failure propagation

Source: AF-AST-STD-001 / FIRST EDITION, p. 117; exact source subclause 76.5.

1. Utilities, storage, conversion and networks shall be evaluated for common failures, load prioritisation, restoration, fire or containment interfaces and dependence on external support.	UNSET
2. Protection of people and essential assets shall be distinguished from mission-service continuity.	UNSET
3. A shared resource cannot be credited as independent backup to itself.	UNSET

Verify: Review dependency analysis and safe tests of loss, isolation and restoration.

Acceptance: Every essential protective path remains effective under the approved failure set; unsupported independence is not credited.

Evidence / method / parameter / sample references and limits

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76.6 — Degradation, environmental claims and retirement

Source: AF-AST-STD-001 / FIRST EDITION, p. 117; exact source subclause 76.6.

1. Capacity, conversion and loss models shall reflect ageing and relevant exposure.	UNSET
2. Environmental claims shall use a separately defined lifecycle boundary and shall not imply technical interchangeability or complete safety.	UNSET
3. Retirement shall preserve hazardous inventory, terminal protection, custody and monitoring duties.	UNSET

Verify: Reconcile actual condition, model validity, separate environmental statements and final disposition.

Acceptance: Technical life and terminal conditions are met independently of environmental metrics; unknown inventories remain open obligations.

Evidence / method / parameter / sample references and limits

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77 — Verification campaigns and quantitative closure

77.1 — Requirement-to-method completeness

Source: AF-AST-STD-001 / FIRST EDITION, p. 118; exact source subclause 77.1.

1. The verification matrix shall include every applicable requirement, object/configuration, method, test or analysis purpose, criterion, uncertainty, evidence and authorised conclusion.	UNSET
2. Inspection, analysis, demonstration and testing shall be selected for the actual failure mechanism.	UNSET
3. Annex T domains guide coverage but are not ready-made methods.	UNSET
4. A complete test list shall not replace requirement-level closure.	UNSET

Verify: Reconcile the requirement population, test matrix and actual evidence using stable identifiers.

Acceptance: Every applicable requirement has a valid completed evidence path; any essential uncovered row remains HOLD.

Evidence / method / parameter / sample references and limits

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77.2 — Campaign design and article pedigree

Source: AF-AST-STD-001 / FIRST EDITION, p. 118; exact source subclause 77.2.

1. Define qualification articles, flight or service articles, specimens, representative differences, prior exposure, fixtures, operating modes and cumulative test sequence.	UNSET
2. Identify which conclusions may be transferred between articles and why.	UNSET
3. Failed tests, repairs and substitutions shall remain in the same historical chain.	UNSET

Verify: Review specimen-to-product and test-to-configuration equivalence records.

Acceptance: All material differences and accumulated effects are evaluated before evidence reuse; unrepresentative essential evidence is not accepted.

Evidence / method / parameter / sample references and limits

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77.3 — Measurement and uncertainty readiness

Source: AF-AST-STD-001 / FIRST EDITION, p. 118; exact source subclause 77.3.

1. Before execution, verify instrument identity, calibration, range, bandwidth, synchronisation, environment, software, raw-data retention and uncertainty suitability.	UNSET
2. Sensor placement and spatial coverage shall represent the characteristic being accepted.	UNSET
3. Protect the article and personnel through separately specified stop conditions.	UNSET

Verify: Inspect the full measurement chain and execute relevant readiness checks.

Acceptance: All required channels are valid for the intended inference; a missing, saturated or misconfigured critical channel prevents that acceptance.

Evidence / method / parameter / sample references and limits

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77.4 — Combined effects and sequence

Source: AF-AST-STD-001 / FIRST EDITION, p. 118; exact source subclause 77.4.

1. The technical plan shall evaluate whether individual tests adequately address coupled environments and order-dependent damage.	UNSET
2. Thermal, radiation, mechanical, electrical, contamination and software conditions shall be combined or supported by a justified integrated analysis where necessary.	UNSET
3. Over-test and under-test shall be assessed against the actual evidence purpose.	UNSET

Verify: Review the interaction matrix and cumulative exposure ledger.

Acceptance: Every material combined mechanism has adequate evidence; passing isolated tests does not automatically close unexamined combinations.

Evidence / method / parameter / sample references and limits

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77.5 — Original data and invalid tests

Source: AF-AST-STD-001 / FIRST EDITION, p. 118; exact source subclause 77.5.

1. Retain actual setup, input and response histories, environmental conditions, interruptions, alarms, raw files, corrections, uncertainty and validity classification.	UNSET
2. An invalid run shall state what evidence remains usable and which requirement is not demonstrated.	UNSET
3. A repaired or changed article shall not silently replace the originally failed configuration.	UNSET

Verify: Reconstruct a selected run from raw data and contemporaneous records.

Acceptance: The run is independently interpretable and no failed, invalid or missing evidence is concealed.

Evidence / method / parameter / sample references and limits

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77.6 — Numerical and attribute acceptance

Source: AF-AST-STD-001 / FIRST EDITION, p. 119; exact source subclause 77.6.

1. Quantitative decisions shall use the prospectively selected predicate and uncertainty rule.	UNSET
2. Attribute decisions shall name observable states and essential steps rather than unstructured judgement.	UNSET
3. Equality at an inclusive limit is handled as specified; empty acceptance regions, invalid units and non-finite values produce HOLD.	UNSET
4. Rounding shall not change an outcome.	UNSET

Verify: Replay boundary, negative and missing-input cases using Annex AL and Annex AM.

Acceptance: The correct state follows deterministically from valid unrounded inputs and the approved predicate.

Evidence / method / parameter / sample references and limits

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77.7 — Retest and corrective verification

Source: AF-AST-STD-001 / FIRST EDITION, p. 119; exact source subclause 77.7.

1. Retest shall follow an approved rationale, defined scope and representative configuration.	UNSET
2. It shall preserve the original failure and address causal, exposure and selection effects.	UNSET
3. Repeated trials until a pass occurs are not an acceptance strategy.	UNSET
4. Corrective verification shall include the original failure mode and relevant regression, not merely a new favourable measurement.	UNSET

Verify: Review the retest authorisation, all attempts and failure-to-correction trace.

Acceptance: The original deficiency and affected requirements are demonstrably resolved; otherwise the claim remains failed or held.

Evidence / method / parameter / sample references and limits

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77.8 — Independent campaign closure

Source: AF-AST-STD-001 / FIRST EDITION, p. 119; exact source subclause 77.8.

1. The final dossier shall reconcile configuration, criteria, valid results, adverse evidence, untested characteristics, uncertainty, concessions and open duties.	UNSET
2. Qualification, article acceptance, laboratory competence and ASTRA conformity shall retain separate decisions.	UNSET
3. A technical concession shall not be relabelled as fulfilment of the original criterion.	UNSET

Verify: Perform independent requirement-by-requirement closure with actual decision authority.

Acceptance: Every applicable gate for the exact claimed object passes; counts, percentages or programme completion dates alone cannot release the object.

Evidence / method / parameter / sample references and limits

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78 — Digital, AI and autonomous mission assurance

78.1 — Released digital configuration

Source: AF-AST-STD-001 / FIRST EDITION, p. 120; exact source subclause 78.1.

1. Identify requirements, source or logic, generated artefacts, model weights, preprocessing, parameters, tools, dependencies, build environment and loaded target.	UNSET
2. A version label alone is insufficient to establish the deployed behaviour.	UNSET
3. Every consequential change shall be attributable and linked to impact, regression and actual release authority.	UNSET

Verify: Reconstruct the released artefact and compare it with the loaded configuration.

Acceptance: The evaluated and deployed digital configurations match, or all differences have accepted verification before use.

Evidence / method / parameter / sample references and limits

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78.2 — Operational domain and prohibited behaviour

Source: AF-AST-STD-001 / FIRST EDITION, p. 120; exact source subclause 78.2.

1. Define intended tasks, users, environment, sensor and network assumptions, autonomous authority, prohibited actions and protective states.	UNSET
2. Experimental uses shall be segregated from live release.	UNSET
3. Behaviour outside the approved domain shall trigger the defined limitation or protective response rather than an unsupported autonomous expansion.	UNSET

Verify: Review domain completeness and execute representative in-domain, out-of-domain and prohibited cases.

Acceptance: All essential domain and protective conditions pass; unbounded authority or unknown out-of-domain behaviour blocks release.

Evidence / method / parameter / sample references and limits

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78.3 — Evaluation data and model credibility

Source: AF-AST-STD-001 / FIRST EDITION, p. 120; exact source subclause 78.3.

1. Evaluation shall retain data provenance, rights, labelling, representative populations, partitions, leakage checks, synthetic contribution and adverse cases.	UNSET
2. Model verification, calibration and independent validation shall be distinguished.	UNSET
3. A high aggregate score, large dataset or visual twin is not evidence of every rare or safety-critical condition.	UNSET

Verify: Inspect data partitions and independently reproduce selected performance and model-validation results.

Acceptance: Prospective scenario-specific criteria are met with disclosed uncertainty and limitations; unsupported extrapolation remains HOLD.

Evidence / method / parameter / sample references and limits

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78.4 — Human authority and consequential decisions

Source: AF-AST-STD-001 / FIRST EDITION, p. 120; exact source subclause 78.4.

1. Human oversight shall be validated against available information, response time, competence, workload and control access.	UNSET
2. Automated decision support may organise evidence but shall not independently issue an ASTRA grant, renewal, suspension or restoration.	UNSET
3. Generated observations and citations shall not be presented as authentic source events.	UNSET

Verify: Challenge automation bias, false-source and delayed-intervention scenarios.

Acceptance: Actual authorised people can perform every required role and source evidence remains verifiable; nominal oversight alone is insufficient.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

78.5 — Security and trusted updates

Source: AF-AST-STD-001 / FIRST EDITION, p. 121; exact source subclause 78.5.

1. Protect source, build, machine instructions, operational data, identities and updates according to the actual threat and safety model.	UNSET
2. Update acceptance shall verify origin, integrity, authority, target, compatibility and interruption behaviour.	UNSET
3. Reversion to an earlier load shall not reintroduce an unacceptable defect without explicit technical disposition.	UNSET
4. Security testing requires written safe authorisation.	UNSET

Verify: Review trust dependencies and execute isolated permitted and prohibited update tests.

Acceptance: All required integrity and protective gates pass; a valid signature alone does not establish functional safety or compatibility.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

78.6 — Monitoring, drift and adaptation

Source: AF-AST-STD-001 / FIRST EDITION, p. 121; exact source subclause 78.6.

1. Define detectable drift, changed exposure, failure signals, missing-data response, authority and reassessment triggers.	UNSET
2. Monitor what the method can actually observe, not every property inferred from a live dashboard.	UNSET
3. Adaptation outside the released envelope shall require renewed assurance before reliance.	UNSET
4. A monitoring gap shall not be treated as evidence of unchanged performance.	UNSET

Verify: Review monitoring coverage, alert-to-action records and controlled changes.

Acceptance: Essential performance and protection remain supported; otherwise restrict the affected use and assess earlier outputs.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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78.7 — Recovery and semantic portability

Source: AF-AST-STD-001 / FIRST EDITION, p. 121; exact source subclause 78.7.

1. Export and recovery shall preserve identities, scope, configuration, evidence states, decisions, history, units, time basis, permissions and relationships.	UNSET
2. Equal file counts do not establish equal meaning.	UNSET
3. Reconcile events after the recovery point and obtain receiving acceptance before cutover.	UNSET
4. Service availability and evidence-integrity acceptance are separate.	UNSET

Verify: Execute missing-link, wrong-version, interrupted-write, expired-authority and restore tests.

Acceptance: All essential records and relationships are usable and correct; unresolved evidence loss keeps dependent decisions on HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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79 — Contingency survivability and terminal-state stewardship

79.1 — Protect people and essential assets before mission success

Source: AF-AST-STD-001 / FIRST EDITION, p. 122; exact source subclause 79.1.

1. The assurance case shall separate mission-success conditions from required protection when the mission objective cannot be achieved.	UNSET
2. Define credible severe consequences, essential controls, detection, escalation and authorised stop or restriction.	UNSET
3. Commercial benefit and a favourable aggregate risk score shall not override a missing essential protective condition.	UNSET

Verify: Review hazard-to-control-to-verification traceability for failed-mission scenarios.

Acceptance: Every required protective function has accepted evidence independently of mission performance metrics.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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79.2 — Emergency feasibility and resources

Source: AF-AST-STD-001 / FIRST EDITION, p. 122; exact source subclause 79.2.

1. Protective and recovery plans shall identify actual people, communication, access, equipment, energy, consumables, time and external assistance.	UNSET
2. An assumed response shall be credited only within demonstrated capability and mission constraints.	UNSET
3. A rescue agreement, proposed future service or unallocated reserve shall not be counted as assured availability.	UNSET

Verify: Reconcile scenario timing, resource budgets and exercised interfaces.

Acceptance: All required protective pathways are feasible within their approved response and survival bounds.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

79.3 — Loss of contact and uncertain physical state

Source: AF-AST-STD-001 / FIRST EDITION, p. 122; exact source subclause 79.3.

1. The operator shall define the distinction between missing data, confirmed failure, safe dormant state, lost asset and completed disposition.	UNSET
2. Preserve last valid observations, their age and uncertainty.	UNSET
3. The absence of an alarm or signal shall not establish safe state.	UNSET
4. An inference shall identify its model and limits and shall not be presented as direct observation.	UNSET

Verify: Review the state-classification record against raw evidence and observability limits.

Acceptance: Only a supported state is assigned; uncertain essential conditions retain UNKNOWN in operational records and HOLD in dependent acceptance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

79.4 — Affected populations and historical decisions

Source: AF-AST-STD-001 / FIRST EDITION, p. 122; exact source subclause 79.4.

1. An event shall be traced to affected configurations, fleet members, materials, methods, software, personnel, reports and prior decisions.	UNSET
2. Determine both occurrence and escape causes and test competing explanations.	UNSET
3. Changing a supplier, restarting a service or training one person shall not by itself close a shared systemic cause.	UNSET

Verify: Inspect end-to-end dependency and look-back analysis with actual notifications.

Acceptance: All materially dependent outputs are addressed; no valid adverse history is erased by later correction.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

79.5 — Terminal evidence and responsible transfer

Source: AF-AST-STD-001 / FIRST EDITION, p. 122; exact source subclause 79.5.

1. Terminal-state claims shall specify the exact intended condition, permitted inference, observation method, resources and residual duties.	UNSET
2. Transfer shall preserve custody and receiving acceptance of records, hazardous inventory, notices, monitoring and unresolved remedies.	UNSET
3. A file sent or contract ended is not accepted closure.	UNSET

Verify: Reconcile final-state evidence, inventory and recipient acknowledgement.

Acceptance: Every required terminal criterion is demonstrated or openly limited, and every remaining duty has an actual receiving owner.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

79.6 — Learning and sustained accountability

Source: AF-AST-STD-001 / FIRST EDITION, p. 123; exact source subclause 79.6.

1. Lessons shall be translated into controlled requirements, methods, training, resources or interfaces and verified under representative conditions.	UNSET
2. Protect good-faith reporting and distinguish allegation from substantiated misconduct.	UNSET
3. Long-term archives shall retain technical meaning, access conditions and correction responsibility after staff, tools or institutions change.	UNSET

Verify: Review corrective effectiveness and test retrieval by a receiving competent reviewer.

Acceptance: The affected controls demonstrably improve and the mission record remains interpretable; publication of a lesson alone is not closure.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

80 — Integrated all-domain profile and final release

80.1 — One complete application schedule

Source: AF-AST-STD-001 / FIRST EDITION, p. 124; exact source subclause 80.1.

1. The schedule shall join the object tuple, F01–F08 selection, Annex AK domains, phase/mode matrix, required methods, parameter records, competence, evidence, independent decisions and continuing controls.	UNSET
2. All triggers in Annex AO shall be resolved.	UNSET
3. Shared records may be reused after relevance review, but shall not merge distinct objects, outcome classes or actual authority.	UNSET

Verify: Reconcile the full schedule with Clauses 1, 4, 62 and 63 and Annex C.

Acceptance: No essential scope, parameter, responsibility or evidence field remains undefined before a positive decision.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

80.2 — Domain and verification completeness

Source: AF-AST-STD-001 / FIRST EDITION, p. 124; exact source subclause 80.2.

1. Map every applicable domain and requirement to valid verification and to an accountable conclusion.	UNSET
2. Treat domain counts, test counts and completed checklist percentages as planning measures only.	UNSET
3. Annex T is not exhaustive of all future methods; a newly discovered material mechanism shall create a controlled additional requirement and evidence task before the affected claim proceeds.	UNSET

Verify: Perform forward and reverse traceability and inspect omitted-domain reasons.

Acceptance: Every applicable condition passes or has a justified approved N/A; no HOLD or FAIL is hidden by a coverage percentage.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

80.3 — Competent independent closure

Source: AF-AST-STD-001 / FIRST EDITION, p. 124; exact source subclause 80.3.

1. The independent reviewer shall have verified technical coverage, lawful evidence access and no prohibited case relationship.	UNSET
2. Technical dissent shall be resolved by evidence, corrected scope or further work.	UNSET
3. Where a three-person panel is required, all three eligible members shall participate and the established vote rule shall apply only after the technical gates are satisfied.	UNSET

Verify: Check competence, conflict, access, panel and reasoned decision records.

Acceptance: Both the technical conjunction and applicable authority/panel rules pass; a vote cannot cure absent evidence.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

80.4 — Bounded claim and publication

Source: AF-AST-STD-001 / FIRST EDITION, p. 124; exact source subclause 80.4.

1. The outcome shall identify legal holder, issuer, object, configuration, family/module, domain, site or remote responsibility, criteria, limitations, actual dates and ongoing or instance basis.	UNSET
2. Public wording shall not imply unrestricted coverage of all space, universal safety, statutory permission or external recognition without evidence.	UNSET
3. The approved cover and edition label do not change those boundaries.	UNSET

Verify: Compare the actual decision with credential, registry and all proposed public representations.

Acceptance: Published scope and status exactly match the authorised decision and preserve every material restriction.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

80.5 — Continuing conformity and change

Source: AF-AST-STD-001 / FIRST EDITION, p. 124; exact source subclause 80.5.

1. Maintain surveillance, technical validity, people, resources, configuration, monitoring and actual state history under the controlling clocks.	UNSET
2. Mission, environment, population or technology changes shall trigger impact review before expanded reliance.	UNSET
3. Restoration shall preserve expiry unless a full renewal has occurred and shall not validate the suspended interval.	UNSET

Verify: Audit actual completion, change and status records rather than scheduled dates alone.

Acceptance: The current claim remains fully supported; overdue or invalidated conditions trigger the applicable restriction, suspension or withdrawal.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

80.6 — Completion boundary

Source: AF-AST-STD-001 / FIRST EDITION, p. 125; exact source subclause 80.6.

1. The final document is a requirement and evidence framework.	UNSET
2. Each actual mission and technical profile shall complete its numerical limits, specialist procedures, permissions and validation.	UNSET
3. Newly authored provisions shall follow the real adoption process before binding live use.	UNSET
4. No statement in this publication guarantees that every undiscovered physical phenomenon or future technology has already been validated.	UNSET

Verify: Review the final release dossier and the truthful distinction between prepared text and real implementation.

Acceptance: Only the exact demonstrated and authorised scope is released; incomplete domains remain available for controlled development, not presumed conformity.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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C2 All-space domain disposition — AK01–AK32

AK01 — Terrestrial engineering and supply

ASTRA Annex AK, p. 187; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Design offices, manufacturing, material sources, procurement and integration.	UNSET
2. Complete the required profile content: Actual site, source, configuration, delegated responsibilities and released technical data.	UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: Every delivered characteristic and essential supplier interface is traceable to accepted evidence.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK02 — Test facilities and technical providers

ASTRA Annex AK, p. 187; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Environmental, structural, materials, calibration and inspection services, including mobile and remote work.	UNSET
2. Complete the required profile content: Method, range, uncertainty, environment, site, signatory and provider relationship.	UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: Actual method competence and valid result evidence are separately demonstrated.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK03 — Launch sites and spaceports

ASTRA Annex AK, p. 187; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Site infrastructure, handling, ground services, emergency interfaces and actual permissions.	UNSET
2. Complete the required profile content: Named site/operator, vehicle and payload classes, utilities, restrictions and receiving parties.	UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: No site outcome is used as vehicle, launch or mission permission.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK04 — Launch and deployment interfaces

ASTRA Annex AK, p. 187; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Vehicle/payload integration, handling, ascent environment, separation and commissioning. UNSET

2. Complete the required profile content: Article pedigree, qualification envelope, interfaces and distinct readiness/permission decisions. UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: Every required integration and protective condition is met before the actual commitment.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK05 — Reusable launch and return articles

ASTRA Annex AK, p. 188; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Cumulative exposure, refurbishment, thermal protection, hidden damage and life decisions. UNSET

2. Complete the required profile content: Serial identity, use history, inspection detectability, qualified repair and current limits. UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: Reuse is based on actual history and accepted condition, never a reset life.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK06 — Low Earth orbit systems

ASTRA Annex AK, p. 188; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Satellites, stations and services in the declared near-Earth operating environment. UNSET

2. Complete the required profile content: Actual orbit and duration, drag/atmosphere, atomic oxygen where material, radiation and terminal duties. UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: Environment-specific qualification and end-of-life capability support the bounded mission.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK07 — Medium, geosynchronous and high Earth orbits

ASTRA Annex AK, p. 188; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Navigation, communication, relay and other specified orbit-dependent services.	UNSET
2. Complete the required profile content: Actual geometry, radiation/charging, links, clocks, service bounds and disposal assumptions.	UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: No lower-orbit or nominal-link evidence automatically covers a different environment.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK08 — Highly elliptical and transfer regions

ASTRA Annex AK, p. 188; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Missions crossing materially different exposure, geometry and communication regimes.	UNSET
2. Complete the required profile content: Phase-dependent environment, cumulative exposure, timing, resources and state confidence.	UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: Every phase and transition has a supported envelope and verification path.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK09 — Cislunar and libration-region systems

ASTRA Annex AK, p. 189; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Lunar vicinity, relays, gateways, transportation interfaces and regional services.	UNSET
2. Complete the required profile content: Reference frames, communication constraints, resources, users and external support.	UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: The exact operating domain and service dependencies are technically complete.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK10 — Constellations and formation services

ASTRA Annex AK, p. 189; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Distributed functions, inter-satellite links, fleet management and shared ground support. UNSET

2. Complete the required profile content: Member configuration, collective service, common causes, coordination and degraded modes. UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: Distributed performance and independent redundancy assumptions are validated.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK11 — Orbital traffic and tracking support

ASTRA Annex AK, p. 189; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Tracking, conjunction information, data services and inter-operator coordination. UNSET

2. Complete the required profile content: Source age, epoch/frame, covariance, model suitability, decision thresholds and authority. UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: A metric is accepted only for its validated data/model scope; missing data are not zero risk.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK12 — Cooperative docking and servicing

ASTRA Annex AK, p. 189; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Authorised inspection, connection, transfer, repair and service interventions. UNSET

2. Complete the required profile content: Consent, actual assets, relative-state evidence, compatible interfaces and protected states. UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: All essential interface and completion states are independently supported.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK13 — On-orbit assembly and manufacture

ASTRA Annex AK, p. 190; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Assembly, additive or other production, finishing and output verification in space. UNSET

2. Complete the required profile content: Inputs, essential variables, environment, sensor/model validity and product acceptance. UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: Process execution is not substituted for evidence of required output properties.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK14 — Stations and inhabited orbital platforms

ASTRA Annex AK, p. 190; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Habitation, payload integration, visiting vehicles, occupants and support. UNSET

2. Complete the required profile content: Occupancy/duration, life support, emergency, consumables, human tasks and docking interfaces. UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: Integrated human protection and resources are accepted independently of mission success.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK15 — Extravehicular and isolated crew work

ASTRA Annex AK, p. 190; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Individual equipment, user/task, environment, support and rescue dependencies. UNSET

2. Complete the required profile content: Actual equipment configuration, essential skills, consumables, communications and authority. UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: Essential individual and integrated protective tasks pass without averaging.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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AK16 — Lunar surface systems

ASTRA Annex AK, p. 190; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Landers, rovers, infrastructure, observation and processing on the Moon.	UNSET
2. Complete the required profile content: Dust, local terrain, illumination, temperature, gravity, radiation and communication assumptions.	UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: Destination-specific evidence bounds the actual region, phase and operating mode.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK17 — Planetary landers and surface vehicles

ASTRA Annex AK, p. 191; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Surface exploration, scientific instruments, mobility and handling.	UNSET
2. Complete the required profile content: Environment/region, terrain, access, autonomy, supportability and contamination control.	UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: Terrestrial analogy is justified; unknown critical surface conditions remain restricted.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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AK18 — Atmospheric and buoyant exploration

ASTRA Annex AK, p. 191; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Planetary atmospheric vehicles, balloons, aircraft and relevant instruments.	UNSET
2. Complete the required profile content: Atmosphere, pressure, chemistry, thermal conditions, flight/buoyancy functions and terminal state.	UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: All relevant environment-specific structural and functional predicates pass.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK19 — Small-body and comet operations

ASTRA Annex AK, p. 191; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Observation, cooperative contact, sampling and resource demonstrations.	UNSET
2. Complete the required profile content: Body uncertainty, surface interaction, contamination, autonomy and sample custody.	UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: Uncertain body/interaction properties are not treated as established terrestrial conditions.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK20 — Subsurface and ocean-world exploration

ASTRA Annex AK, p. 191; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Subsurface, liquid, ice and extreme-pressure exploration systems and their interfaces.	UNSET
2. Complete the required profile content: Pressure/chemistry, thermal state, containment, access, communication and protection duties.	UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: Specialist boundary and contamination evidence precedes dependent use.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK21 — Interplanetary cruise and deep-space missions

ASTRA Annex AK, p. 192; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Spacecraft, relays, science operations and long-delay mission support.	UNSET
2. Complete the required profile content: Duration, communications, resources, remote autonomy, radiation and repairability.	UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: Human and autonomous actions are feasible within actual timing and resource limits.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK22 — Solar and heliophysics missions

ASTRA Annex AK, p. 192; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Solar observations and missions with relevant thermal, plasma and radiation extremes.	UNSET
2. Complete the required profile content: Time-varying flux, geometry, surface degradation, charged environment and instrument calibration.	UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: Protection and data-quality evidence cover the actual mission envelope, not a screening equation alone.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK23 — Outer-system and distant observatories

ASTRA Annex AK, p. 192; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Low-flux, long-life, long-delay science and infrastructure applications.	UNSET
2. Complete the required profile content: End-of-life power, thermal survival, data return, ageing and long-term support.	UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: Required lifetime and survival margins are met with credible continuity and data integrity.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK24 — Interstellar precursor and future distant systems

ASTRA Annex AK, p. 192; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Bounded research and demonstrable capabilities for very long-range or novel concepts.	UNSET
2. Complete the required profile content: Validated physics/model domain, actual demonstration state, gaps, authority and terminal duties.	UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: Research promise is not an operational grant; unsupported capability stays in development.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK25 — Human exploration and surface habitats

ASTRA Annex AK, p. 193; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Crew transport interfaces, habitation, exploration support and emergency protection.	UNSET
2. Complete the required profile content: Users, tasks, duration, life support, radiation/environment, health-support and safe-return assumptions.	UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: Every essential human protection and feasibility predicate is supported by specialists.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK26 — Planetary protection and sample return

ASTRA Annex AK, p. 193; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Forward/backward contamination, scientific cleanliness, samples and receiving chain.	UNSET
2. Complete the required profile content: Destination, pathway, applicable protection duties, containment, custody and receiving readiness.	UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: No dependent commitment precedes complete protection and receiving evidence.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK27 — Resource utilisation and remote processing

ASTRA Annex AK, p. 193; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Resource characterisation, processing, quality, storage, use and residues.	UNSET
2. Complete the required profile content: Input variability, environmental qualification, quantity/quality, rights and disposition.	UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: Resource yield, product eligibility and permission remain distinct.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK28 — Space logistics and distributed supply

ASTRA Annex AK, p. 193; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Warehousing, transfer, spares, custody, condition, receiving and service continuity. UNSET

2. Complete the required profile content: Actual items, life, environment, compatible interfaces and arrival/acceptance states. UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: Only physically or otherwise validly confirmed accepted usable inventory supports mission budgets.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK29 — Specialised energy infrastructure

ASTRA Annex AK, p. 194; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Generation, storage, conversion, remote delivery and controlled high-hazard power interfaces. UNSET

2. Complete the required profile content: Architecture, margins, protection, specialist permissions, heat rejection and terminal inventory. UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: Performance never substitutes for safety, source authority or terminal accountability.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK30 — Ground, communication and navigation services

ASTRA Annex AK, p. 194; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Mission control, RF/optical links, timing, data processing, relays and PNT support. UNSET

2. Complete the required profile content: Deployed configuration, authority, source-to-user integrity, delay, uncertainty and recovery. UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: Availability, correctness, authority and completion are separately demonstrated.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK31 — Digital and autonomous space systems

ASTRA Annex AK, p. 194; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Software, programmable hardware, AI, models, twins and defensive security.	UNSET
2. Complete the required profile content: Intended use, domain, source/build/model identity, data, validation, human authority and support.	UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: All essential behaviours and prohibited transitions are verified for the actual deployment.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK32 — Retirement and long-term stewardship

ASTRA Annex AK, p. 194; Clauses 63 and 80.

1. Define applicability and actual retained responsibility for Disposal, passivation governance, loss-of-contact states, records and residual obligations.	UNSET
2. Complete the required profile content: Terminal criteria, actual evidence, unknowns, remaining inventories, notifications and custody.	UNSET

Verify: Compare the real mission concept, phase/mode matrix and family route with the domain record.

Acceptance: Final-state claims are truthful and every unresolved duty has an accepted owner.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

C3 Required parameter groups — P01–P18

P01 — Mission and scope

ASTRA Annex AO, p. 233; 62.2.

1. Legal owner, performer, family/module, object, domain, configuration, location, duration and modes.	UNSET

Verify: Verify derivation and evidence: Scope tuple and mission concept; approved applicability matrix.

Acceptance: No undefined essential object, duty, phase or exclusion.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

P02 — Environment and exposure

ASTRA Annex AO, p. 233; 62.2.

1. Quantity, spatial/temporal boundary, distribution or bound, source/model, uncertainty and coupled effects. UNSET

Verify: Verify derivation and evidence: Mission environment baseline and qualified specialist rationale.

Acceptance: Selected conditions bound each claimed use; unknown critical mechanisms remain HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

P03 — Requirements and acceptance

ASTRA Annex AO, p. 233; 62.2.

1. Stable ID, owner, characteristic, units, bound inclusivity, predicate, observation and essential-step marker. UNSET

Verify: Verify derivation and evidence: Requirement baseline and Annex AL decision rule.

Acceptance: Every condition is evaluable before observations are judged.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

P04 — Geometry and reference systems

ASTRA Annex AO, p. 234; 62.2.

1. Frame origin/orientation, epoch, time scale, coordinate units, transformation and covariance. UNSET

Verify: Verify derivation and evidence: Validated transformation and independent known-answer checks.

Acceptance: Correct frame and time are maintained through every interface.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

P05 — Materials and process qualification

ASTRA Annex AO, p. 234; 62.2.

1. Material type/condition, geometry, sources, variables, qualified window, machine/tool state and hidden properties. UNSET

Verify: Verify derivation and evidence: Actual representative qualification; lot/build genealogy.

Acceptance: All influential variables and required product properties are supported.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

P06 — Test article and fixtures

ASTRA Annex AO, p. 234; 62.2.

1. Article pedigree, differences from delivered object, mounting, boundary conditions, operating state and exposure history. UNSET

Verify: Verify derivation and evidence: Approved representativeness and cumulative-test analysis.

Acceptance: No material difference or prior damage invalidates the intended inference.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

P07 — Measurement and uncertainty

ASTRA Annex AO, p. 235; 62.2.

1. Measurand, instrument/range, corrections, sensitivity, covariance, coverage, time/space sampling and calibration. UNSET

Verify: Verify derivation and evidence: Complete measurement model; valid raw data.

Acceptance: Uncertainty and detection capability are fit for the approved decision rule.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

P08 — Structure, life and mechanisms

ASTRA Annex AO, p. 235; 62.2.

1. Loads, allowables, factors, life, geometry, material state, mechanisms, detectability and approved reserve. UNSET

Verify: Verify derivation and evidence: Qualified structural/life model and representative evidence.

Acceptance: Each prospectively defined margin and essential mechanism predicate passes.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

P09 — Power and energy

ASTRA Annex AO, p. 235; 62.2.

1. End-of-life generation, peak load, usable storage, efficiency, outage/eclipses, mode durations and terminal reserve. UNSET

Verify: Verify derivation and evidence: Configuration-specific phase budget and protection tests.

Acceptance: Power and energy limits both pass without duplicate reserve credit.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

P10 — Thermal and environmental control

ASTRA Annex AO, p. 236; 62.2.

1. Node/location, mode, temperatures/gradients, heat inputs, sink/view factors, properties, uncertainty and transient cases. UNSET

Verify: Verify derivation and evidence: Correlated thermal model and applicable environment tests.

Acceptance: All required hot, cold and transition conditions meet approved limits.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

P11 — Communication and timing

ASTRA Annex AO, p. 236; 62.2.

1. Distance, frequency/wavelength, gain/loss, noise, rate, margin, latency, event time, age, clock error and outage. UNSET

Verify: Verify derivation and evidence: Validated end-to-end budget and adverse service tests.

Acceptance: Required quality, delay and integrity conditions all pass.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

P12 — Human and protective response

ASTRA Annex AO, p. 236; 62.2.

1. User/task, representative conditions, essential steps, feasible intervention, health-support interface and emergency resources. UNSET

Verify: Verify derivation and evidence: Specialist criteria and observed performance.

Acceptance: Every essential protection is effective; no invented universal physiological limit.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

P13 — Contamination and samples

ASTRA Annex AO, p. 237; 62.2.

1. Relevant substances/particles, pathway, limit, method/detection, custody, cleanliness, containment and receiving. UNSET

Verify: Verify derivation and evidence: Mission-specific technical/protection basis.

Acceptance: Required integrity and scientific cleanliness are demonstrated for the actual sample/use.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

P14 — Software, AI and models

ASTRA Annex AO, p. 237; 62.2.

1. Purpose/domain, source/build/weights/data, dependencies, target, errors, uncertainty, prohibited behaviour and change limits. UNSET

Verify: Verify derivation and evidence: Independent verification and model/use validation.

Acceptance: Essential scenarios and target conditions pass; experimental outputs remain separate.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

P15 — Security and command authority

ASTRA Annex AO, p. 237; 62.2.

1. Identities, roles, privileges, keys/trust, target, validity window, command sequence, integrity and interruption response. UNSET

Verify: Verify derivation and evidence: Written test authorisation and deployed workflow validation.

Acceptance: No prohibited authority or unverified command state is accepted.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

P16 — Reliability and availability

ASTRA Annex AO, p. 238; 62.2.

1. Population, exposure, failure definition, observation, dependencies, confidence model, downtime and maintenance exclusions. UNSET

Verify: Verify derivation and evidence: Prospective statistical design plus engineering mechanism evidence.

Acceptance: The actual demonstrated bound meets the approved claim; zero failures is not zero risk.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

P17 — Logistics and environmental claims

ASTRA Annex AO, p. 238; 62.2.

1. Identity, amount, units, condition, losses, allocation, lifecycle boundary, factor provenance and exclusive attributes.	UNSET

Verify: Verify derivation and evidence: Reconciled custody/quantity records and separate suitability/statement evaluation.

Acceptance: Quantity and claim integrity pass independently of technical eligibility.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

P18 — Decision, continuity and terminal duties

ASTRA Annex AO, p. 238; 62.2.

1. Closed findings, reviewer competence, independence, authority, status clocks, final-state criteria, custody and open obligations.	UNSET

Verify: Verify derivation and evidence: Authenticated decisions and verified terminal/transfer evidence.

Acceptance: Every mandatory gate is complete; incomplete or unknown terminal state remains explicit.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

C4 Normative-annex closure and child-condition ledger

ANN-A — Family and outcome boundaries

ASTRA Annex A; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex A and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-B — Authority and case independence

ASTRA Annex B; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex B and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-C — Complete technical profile

ASTRA Annex C; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex C and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-D — Role competence and maintained practice

ASTRA Annex D; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex D and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-E — Site and method-family coverage

ASTRA Annex E; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex E and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-F — Assessment resources and time

ASTRA Annex F; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex F and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-G — Measurement and non-compensable decisions

ASTRA Annex G; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex G and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-H — Actual clocks and state transitions

ASTRA Annex H; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex H and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-I — Technical reports and registry payload

ASTRA Annex I; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex I and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-J — Learning outcomes and attainment

ASTRA Annex J; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex J and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-K — Operational interfaces

ASTRA Annex K; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex K and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-L — Environmental method and claim controls

ASTRA Annex L; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex L and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-M — Complete common record modules

ASTRA Annex M; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex M and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-O — Digital identity and controlled states

ASTRA Annex O; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex O and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-P — Pilot challenges and profile activation

ASTRA Annex P; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex P and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-T — Verification-domain planning payload

ASTRA Annex T; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex T and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-AI — Edition consistency and controlled adoption

ASTRA Annex AI; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex AI and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-U — Lifecycle gates and mission dossier

ASTRA Annex U; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex U and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-V — Technical clause applicability

ASTRA Annex V; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex V and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-W — Process qualification and route evidence

ASTRA Annex W; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex W and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-X — Aviation and mobility scope control

ASTRA Annex X; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex X and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-Y — Space and remote evidence

ASTRA Annex Y; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex Y and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-Z — Human-system protection

ASTRA Annex Z; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex Z and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-AA — Software, AI and model cards

ASTRA Annex AA; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex AA and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-AB — Defensive cyber and recovery

ASTRA Annex AB; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex AB and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-AC — Supply genealogy and life history

ASTRA Annex AC; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex AC and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-AD — Service and local-station interfaces

ASTRA Annex AD; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex AD and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-AE — Competence and independent oversight

ASTRA Annex AE; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex AE and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-AF — Digital prohibited transitions

ASTRA Annex AF; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex AF and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-AL — Acceptance grammar and truth tables

ASTRA Annex AL; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex AL and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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ANN-AM — Calculation use and validity controls

ASTRA Annex AM; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex AM and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

ANN-AO — Technical parameter schedules

ASTRA Annex AO; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex AO and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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ANN-AP — Adverse-case test coverage

ASTRA Annex AP; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex AP and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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ANN-AQ — Definitions and units

ASTRA Annex AQ; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex AQ and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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ANN-AR — Integrated release dossier

ASTRA Annex AR; Clause 62.1 and 80.2.

1. Identify every triggered normative requirement within Annex AR and enumerate its table rows, subparagraphs and instantiated conditions in a controlled child ledger.	UNSET
2. Preserve any informative examples as examples.	UNSET
3. Record actual applicability, parameters, methods, evidence, independent review and state for every mandatory child.	UNSET

Verify: Reconcile the complete annex text and all triggered rows with the local child ledger. A single completed cover row is not full annex assessment.

Acceptance: PASS only when every applicable mandatory child passes and any excluded trigger has independent approval. Missing child population, evidence or approval is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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C5 Source adverse-case challenge coverage — AP01–AP48

AP01 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Undefined mission domain Domain present but not assessed.	UNSET
2. Expected source response: HOLD Complete applicability and technical basis before release.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP02 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Missing criterion A required temperature or performance limit is TBD.	UNSET
2. Expected source response: HOLD Approve an evidence-based parameter before evaluation.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP03 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Post-result threshold change Limit relaxed after observing a failed result.	UNSET
2. Expected source response: FAIL / HOLD Retain original failure; use formal prospective change and new evidence.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP04 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Wrong object evidence Valid report concerns another serial or build.	UNSET
2. Expected source response: HOLD Resolve identity; do not transplant the result.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP05 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Wrong configuration Loaded software differs from the tested baseline.	UNSET
2. Expected source response: HOLD Assess differences and complete required verification.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP06 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Missing calibration A critical channel has no valid calibration for the run.	UNSET
2. Expected source response: HOLD Review method validity and prior affected outputs.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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AP07 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Uncertainty overlap Coverage interval crosses the inclusive limit.	UNSET
2. Expected source response: HOLD Apply the full-interval rule; do not round into PASS.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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AP08 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Inclusive equality Valid interval ends exactly at an inclusive bound.	UNSET
2. Expected source response: PASS for that criterion Apply equality consistently; other gates remain separate.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP09 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Entire interval outside Valid interval lies wholly beyond a bound. UNSET

2. Expected source response: FAIL Contain and disposition; retain the original result. UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP10 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Negative uncertainty Entered uncertainty is negative. UNSET

2. Expected source response: HOLD Reject invalid input and investigate the calculation source. UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP11 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Invalid numeric value NaN, infinity or text enters a quantitative predicate. UNSET

2. Expected source response: HOLD Do not replace invalid input with zero. UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP12 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Unapproved N/A Missing equipment is labelled not applicable.	UNSET
2. Expected source response: HOLD Restore applicability and complete required evidence.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP13 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Open minor at grant All other conditions pass, one in-scope minor remains open.	UNSET
2. Expected source response: NO GRANT Verify closure before initial, renewed or extended outcome.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP14 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Open critical concern A credible essential protection issue exists.	UNSET
2. Expected source response: PROTECT / HOLD Immediate protection; retain established notification/status clocks.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP15 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Missing panel member Two of three required panel members vote yes.	UNSET
2. Expected source response: NO VALID PANEL Replace or defer; two approvals do not substitute.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP16 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Conflicted reviewer Reviewer designed the applicant-specific solution.	UNSET
2. Expected source response: BLOCK ASSIGNMENT Use an eligible independent reviewer.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP17 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Expired role authority A person was unauthorised at the event time.	UNSET
2. Expected source response: HOLD / IMPACT REVIEW Later renewal does not validate historical unauthorised work.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP18 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Failed essential skill High average score but essential task failed. UNSET

2. Expected source response: NO ROLE AUTHORISATION Remediate and perform valid direct reassessment. UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP19 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Mixed evidence status Received evidence is automatically marked accepted. UNSET

2. Expected source response: HOLD Require purpose-specific competent validity review. UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP20 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Stale event data Recently received packet contains old event information. UNSET

2. Expected source response: HOLD Apply event-age and timing-uncertainty criteria. UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP21 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Wrong reference frame Position is interpreted in an unverified frame.	UNSET
2. Expected source response: HOLD Validate transformation and related uncertainty.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP22 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Command transmitted only Transmission log is offered as physical completion.	UNSET
2. Expected source response: NOT COMPLETE Require accepted terminal-state evidence.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP23 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Duplicate command A repeated transaction can repeat a consequential action.	UNSET
2. Expected source response: BLOCK / DEFECT Validate sequence, identity and duplicate handling safely.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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AP24 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Simulator connected to live target Synthetic command data could reach a real asset.	UNSET
2. Expected source response: STOP TEST Isolate the environment and verify no live effects.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP25 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Infeasible human intervention Round-trip and response delay exceed the hazard window.	UNSET
2. Expected source response: FAIL CONTROL Do not credit the human step as timely protection.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP26 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Energy positive, peak power inadequate Energy capacity passes but required power is unsupported.	UNSET
2. Expected source response: NO RELEASE Evaluate the separate power predicate.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP27 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Reserve counted twice One reserve supports two simultaneous critical needs. UNSET

2. Expected source response: HOLD Reconcile allocations and obtain sufficient real resources. UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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AP28 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Thermal equation in Celsius Fourth-power calculation uses Celsius. UNSET

2. Expected source response: INVALID / HOLD Recompute in kelvin and assess affected conclusions. UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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AP29 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Free-space-only link claim Important atmospheric or implementation losses omitted. UNSET

2. Expected source response: HOLD Complete and validate the actual end-to-end budget. UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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AP30 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Zero failures means zero risk Small trial set is labelled failure-free indefinitely.	UNSET
2. Expected source response: REJECT CLAIM Use a valid bounded inference and mechanism evidence.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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AP31 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Assumed independent redundancy Both backups depend on one unassessed shared service.	UNSET
2. Expected source response: HOLD Evaluate common causes and real alternative capability.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP32 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Dose quantities mixed Device absorbed dose and a different quantity are summed.	UNSET
2. Expected source response: INVALID / HOLD Keep compatible quantities and effects distinct.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP33 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Terrestrial process automatically transferred Changed environment has no qualification basis.	UNSET
2. Expected source response: HOLD Review differences and perform required remote-environment qualification.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP34 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Unobservable hidden property Telemetry does not measure or validly infer an essential property.	UNSET
2. Expected source response: HOLD Provide suitable evidence or restrict the output claim.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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AP35 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Unknown reuse history A successful functional test is used to reset item life.	UNSET
2. Expected source response: REJECT LIFE CLAIM Retain unknown history and require valid life/condition evidence.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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AP36 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Sample chain broken Receiving sample cannot be linked to original container.	UNSET
2. Expected source response: HOLD Resolve identity and contamination/custody consequences.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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AP37 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Receiving facility not ready Return-chain acceptance depends on a planned future facility.	UNSET
2. Expected source response: BLOCK DEPENDENT COMMITMENT Establish actual accepted receiving capability.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP38 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Resource yield without quality Mass yield is presented as usable product output.	UNSET
2. Expected source response: HOLD Separately verify material and functional eligibility.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP39 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Partial inventory labelled complete footprint Mandatory lifecycle categories omitted.	UNSET
2. Expected source response: REJECT UNQUALIFIED CLAIM Correct boundary and complete applicable statement evidence.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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AP40 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Exclusive attribute allocated twice Same eligible quantity supports duplicate exclusive claims.	UNSET
2. Expected source response: HOLD Resolve allocation and affected public statements.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP41 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: AI evaluation leakage Evaluation items overlap improperly with training/tuning.	UNSET
2. Expected source response: HOLD Rebuild independent evaluation and reassess claimed performance.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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AP42 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Adaptation outside envelope Model changes without impact and release controls.	UNSET
2. Expected source response: RESTRICT USE Restore an accepted boundary and complete renewed assurance.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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AP43 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Expired credential reprinted A new PDF date is used to revive status.	UNSET
2. Expected source response: NO RESTORATION Preserve expiry; require actual authorised renewal.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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AP44 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Appeal during suspension Appeal receipt is used as automatic reinstatement.	UNSET
2. Expected source response: NO AUTOMATIC CHANGE Keep protection and expiry while independent remedy proceeds.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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AP45 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Backup available, links missing Application runs but evidence relationships are broken.	UNSET
2. Expected source response: HOLD ASSURED USE Reconcile semantic integrity before acceptance.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP46 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Equal migration counts, wrong records Source/destination totals match but identities differ.	UNSET
2. Expected source response: FAIL MIGRATION CHECK Reconcile records, versions, links and meaning.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP47 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Lost contact labelled disposed No terminal-state evidence supports the claim.	UNSET
2. Expected source response: UNKNOWN / HOLD Publish the actual uncertainty and retain remaining duties.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AP48 — Adverse-case challenge

Source: ASTRA Annex AP; local actual observations remain unrecorded.

1. Challenge: Closure without receiving custodian Records and unresolved obligations have no accepted owner.	UNSET
2. Expected source response: INCOMPLETE CLOSURE Obtain lawful receiving custody and duty acceptance.	UNSET

Verify: Record expected behaviour before execution, actual system/method, observed response, raw evidence, defect, corrective action and retest.

Acceptance: Accept local validation only after every required expected behaviour is actually demonstrated; failed essential tests block dependent reliance.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

Final independent closure and continuing duties

Closure element	Required conclusion
Requirement population	All applicable source and annex child conditions reconciled; no missing test, station, phase or outcome hidden by counts.
Results and findings	Mandatory PASS and independently approved N/A only; every in-scope nonconformity verified closed before grant, renewal or extension.
Authority and independence	Current competent evaluator, reviewer and decision roles; conflict clearance; all required panel participation.
Claim and receiving duty	Exact permitted scope, configuration, domain, dates and limitations; authentic recipient acknowledgement and custody.

Full child ledger and population reconciliation

References to all source clauses, normative annex rows, selected technical subjects, domains, parameters and complete instantiated child predicates.

Independent result and rejected / held scope

Record the reasoned decision, unmet conditions, restrictions and preserved adverse evidence; separate technical release from ASTRA outcome.

Actual authority and approval record

Named function, authentic approval instrument, panel participants and genuine decision time; no pre-filled approval.

Continuing monitoring and receiving custody

Original surveillance / expiry clocks, change triggers, open terminal duties, recipient notices and accepted record custodian.

Appendix B — Local adoption, validation and receiving acceptance

Gate	Required evidence	Outcome when incomplete
Authority and identity	Actual operator, scoped mandate, permissible result class, named owner, independent decision and remedy functions.	No live scope release.
Requirement population	All applicable clauses and annexes mapped to child conditions, with reasons and independent approval for exclusions.	HOLD the affected conclusion.
Parameters and methods	Prospective values/attributes; technical basis; valid methods; representativeness; calibration, uncertainty and approved predicates.	No dependent acceptance.
People and evidence	Current demonstrated competence; conflict clearance; original usable source evidence; actual configuration and event times.	Reassign or obtain sufficient evidence.
Local tools and tests	Actual deployment tested with positive, boundary, missing, invalid and prohibited inputs; original failed cases retested.	No consequential reliance on unaccepted tools.
Independent closure	Every mandatory requirement PASS, approved N/A, all in-scope nonconformities verified closed, panel rules where required.	No grant, renewal or extension.
Claims and continuity	Decision-linked scope/status; source history; genuine custody, receiving access, retention, urgent notices and terminal duties.	Restrict publication or transfer until resolved.

Record authentic approval and activation in AF-AST-FR-001 and AF-AST-SC-004 or an equivalent controlled record. The edition label is not an effective date for a particular case. Preserve historical decisions under their actual controlling basis; a newer document does not retroactively create missing competence or evidence. Source: Clauses 4, 31, 61, 62 and 80; Annexes P and AR.

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