



ASTRA

AEROSPACE STANDARD

ASSESSMENT CHECKLIST

Testing and Inspection - Technical Assessment Checklist

AF-AST-CL-004

FIRST EDITION

30 September 2026 | English master text

Aviation / Space / Defense / Future systems

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 Testing and Inspection. 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

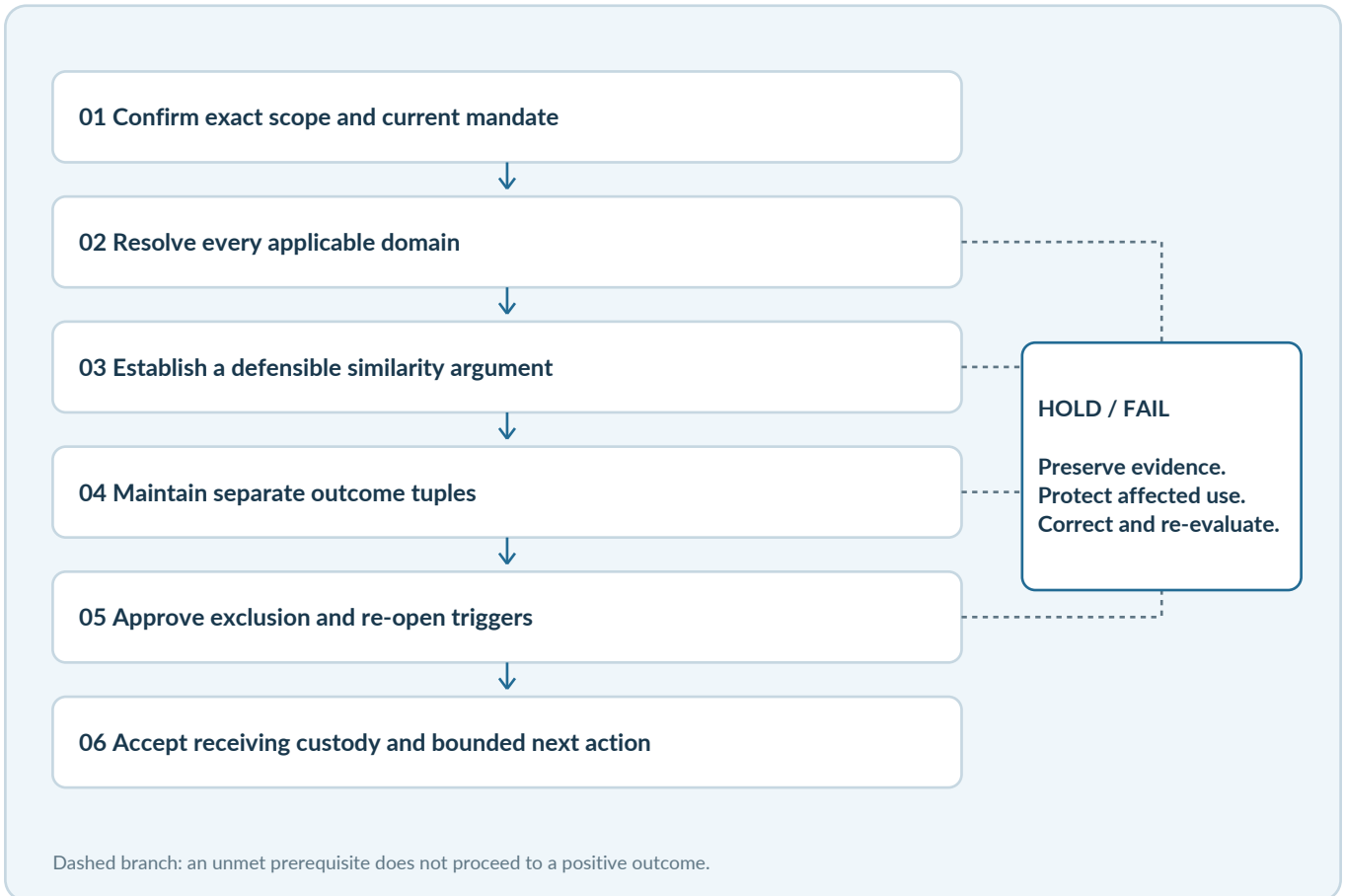
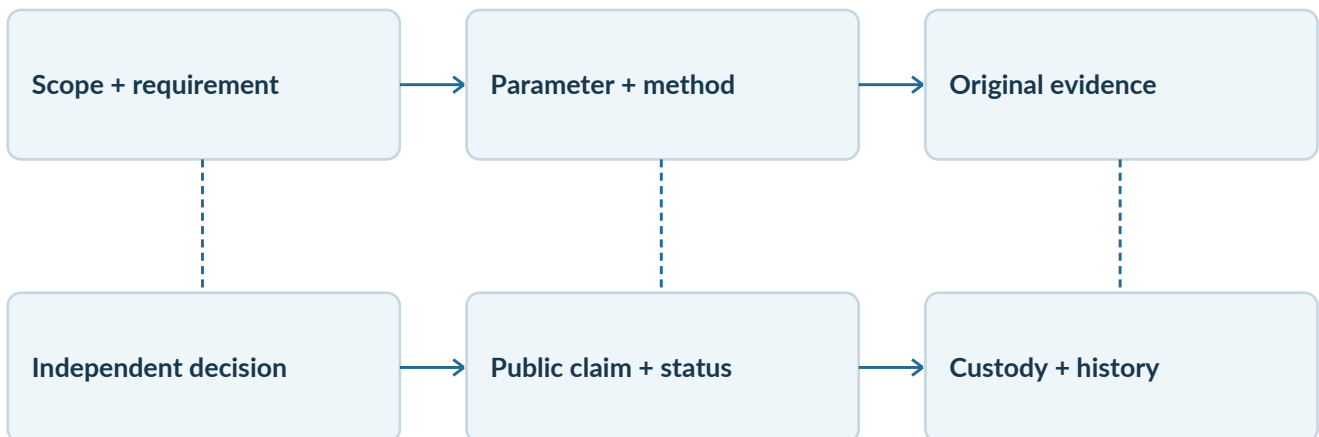


Figure — Implementation sequence for AF-AST-PR-004. Explanatory diagram; the source prerequisites and actual authority remain controlling.



Each relationship carries object identity, controlled version, actual event time and purpose-specific validity.

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

3 Source conditions selected by family and retained responsibility

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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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7.4 – Initial assessor population

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

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| 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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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7.5 – Maintenance and inactivity

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

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| 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.

Evidence / method / parameter / sample references and limits

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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.

Evidence / method / parameter / sample references and limits

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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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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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9.4 – 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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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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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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13.5 – 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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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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19.10 – 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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19.12 – 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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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.

Evidence / method / parameter / sample references and limits

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28.1 – Mandatory scope content

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

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| 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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29.3 – Independent accrediting-operator review

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

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| 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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

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.

Evidence / method / parameter / sample references and limits

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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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

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

Reviewer / actual event time

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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

Reviewer / actual event time

Finding / action / child-condition ledger

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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

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. | <input type="text" value="UNSET"/> |
| 2. Requirements may define a future scope, but no operational capability shall be granted from aspiration alone. | <input type="text" value="UNSET"/> |
| 3. The final record shall preserve terminal-state uncertainty, remaining obligations and custody after active support ends. | <input type="text" value="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

Reviewer / actual event time

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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. | <input type="text" value="UNSET"/> |
| 2. Identify essential tasks and protective actions. | <input type="text" value="UNSET"/> |
| 3. Validation shall state participant representativeness, assistance, training and limitations; one expert demonstration shall not establish capability for all users. | <input type="text" value="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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73.5 – 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

Reviewer / actual event time

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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

Reviewer / actual event time

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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

Reviewer / actual event time

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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

Reviewer / actual event time

Finding / action / child-condition ledger

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

Reviewer / actual event time

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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

Reviewer / actual event time

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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

Reviewer / actual event time

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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

Reviewer / actual event time

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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

Reviewer / actual event time

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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

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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. | <input type="text" value="UNSET"/> |
| 2. Technical dissent shall be resolved by evidence, corrected scope or further work. | <input type="text" value="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. | <input type="text" value="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

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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. | <input type="text" value="UNSET"/> |
| 2. Public wording shall not imply unrestricted coverage of all space, universal safety, statutory permission or external recognition without evidence. | <input type="text" value="UNSET"/> |
| 3. The approved cover and edition label do not change those boundaries. | <input type="text" value="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

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4 Retained subject controls and added R07–R12 extensions

F03-L01 – Non-destructive testing

Competence to perform defined non-destructive evaluation techniques for stated material/product sectors, geometries, defect mechanisms and access conditions. Technique-specific methods may include visual/optical, penetrant, magnetic, ultrasonic, radiographic, electromagnetic or other justified approaches; none is granted merely by this catalogue.

Claim boundary: Accreditation concerns the declared body competence; neither a test report nor a personnel credential automatically certifies the inspected product.

F03-L01-R01 – Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Define the exact technique, material sector, defect and access boundary; group methods only where a documented technical relationship supports representative witnessing.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

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F03-L01-R02 – Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Verify practical operator and technical-supervision competence, justified task-specific prerequisites and employer authorisation.

UNSET

2. A general personnel badge does not authorise every technique.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L01-R03 – Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Qualify procedures, equipment, reference artefacts, software and environmental conditions for the actual inspection task and required interpretation.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L01-R04 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Demonstrate detection limitations and relevant false-positive/false-negative behaviour; a successful easy reference check is not proof of every installed defect.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L01-R05 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Preserve item identity, preparation, actual settings/conditions, observations, indication interpretation, reporting and any inaccessible region in a complete technical trail.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L01-R06 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Retain adverse work, comparison evidence, re-examinations and change effects; hazardous sources require separate permissions and specialist safe procedures.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L01-R07 — Mission and environment transfer

New implementation detail aligned with ASTRA 62.1–62.2; 63.2–63.6; 64.1–64.6

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|--|-------|
| 1. For non-destructive testing, define the qualified or evaluated envelope for technique-specific non-destructive examination. | UNSET |
| 2. Compare the intended mission, material, site, configuration and phase/mode with the actual evidence. | UNSET |
| 3. Identify material differences and allocate new demonstration before relying on heritage or terrestrial qualification. | UNSET |

Verify: Inspect the difference matrix, environmental inputs, owner approvals and requirement-to-method links.

Acceptance: PASS only when every influential difference is either bounded by valid retained evidence or closed by accepted additional demonstration. Missing essential transfer evidence is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L01-R08 — Essential properties and observability

New implementation detail aligned with ASTRA 62.3–62.5; 77.1–77.6

- | | |
|---|-------|
| 1. Identify the failure and evidence risks specific to this subject: a reference indication can fail to represent the installed flaw and access conditions. | UNSET |
| 2. State which critical properties are directly observed, measured, inferred using a validated model or unknown. | UNSET |
| 3. Allocate separate child predicates for each hidden property and each essential protective function. | UNSET |

Verify: Review detection capability, raw observations, model validity and limitations against each claimed property.

Acceptance: A valid observation supports only its demonstrated property and domain. An unobservable essential condition is HOLD, not a favourable default or a proven product defect.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L01-R09 – Configuration and data identity

New implementation detail aligned with ASTRA 33.3–33.4; 56.1–56.5; 62.7; 78.7

1. Bind technique-specific non-destructive examination to actual configuration, controlled technical data, source/lot or record identity, equipment and software state, authorised performer and actual event time.

UNSET

2. Preserve failed runs, changed objects and prior evidence through any digital transfer.

UNSET

Verify: Replay one result from original records and verify event-time authority, method version and the evaluated-to-delivered relationship.

Acceptance: PASS requires reproducible identity and valid links for the actual claim. Wrong configuration, stale state, inaccessible evidence or an unverified substituted record is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L01-R10 – Subject-specific adverse demonstration

New implementation detail aligned with ASTRA 62.6–62.7; 77.5–77.8; Annex AP

1. Challenge the following mechanism through a safe authorised test, independent record review or controlled simulation appropriate to this subject: witness actual preparation, difficult boundaries, indication interpretation and false-negative limitations.

UNSET

2. Define the expected outcome before execution, retain original failures and repeat the failed case after correction.

UNSET

Verify: Compare prospective expectations, actual observations, conditions, evidence, defect disposition and relevant regression.

Acceptance: Every essential adverse scenario must have valid accepted evidence. A scripted teaching example is not actual qualification; unavailable required observation remains HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L01-R11 – Receiving interface and bounded output

New implementation detail aligned with ASTRA 32.5; 48.4–48.6; 63.6; 80.4

1. Deliver the bounded output to authorised method signatory and result recipient.

UNSET

2. Reconcile identity, configuration, conditions, unresolved limitations, technical eligibility, remaining duties and readable evidence.

UNSET

3. Identify the actual performer and the organisation retaining acceptance responsibility.

UNSET

Verify: Check the sending manifest, actual recipient access, acknowledgement, restrictions and remaining action owners.

Acceptance: Transfer is complete only after the necessary receiving acceptance is authentic. Sending a file, reconciling quantity or generating a certificate does not establish technical eligibility.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L01-R12 — Independent release and continuing validity

New implementation detail aligned with ASTRA 15.1–15.5; 16.1–16.6; 62.4–62.7; 80.1–80.6

1. Evaluate F03-L01 independently within its declared object and outcome class.	UNSET
2. Reconcile the original R01–R06 controls with R07–R11, applicable source requirements, prospective parameters, findings and actual authority.	UNSET
3. Monitor the subject-specific changes stated in this profile and reopen affected conclusions when the evidence changes.	UNSET

Verify: Independently replay the final predicate and inspect scope, exclusions, competence, conflict clearance, findings closure and event history.

Acceptance: No positive grant, renewal or extension while any applicable mandatory child is FAIL, HOLD or UNSET. N/A requires independent scope justification; technical concessions remain separate from conformity.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L02 — Materials testing

Competence for specified mechanical, physical, chemical, thermal and other material-characterisation methods on defined samples and parent populations. Include specimen preparation, orientation, conditioning, instrument control, data treatment and bounded interpretation.

Claim boundary: Test competence and sample results do not imply conformity of an unrepresented lot, product family or future production.

F03-L02-R01 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Define each measurand, material matrix, range and method, including the customer intended decision and limits of sample-to-parent inference.	UNSET
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Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L02-R02 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Trace specimen location, orientation, machining/preparation and conditioning to the actual material lot or component without substituting a convenient representative label.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L02-R03 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Verify apparatus performance, reference basis, control conditions, data-acquisition software and uncertainty appropriate to the required property.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L02-R04 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Validate modified methods and matrix/interference effects where relevant; retain blanks, recovery/reference checks and failed validation trials.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L02-R05 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Record raw response, anomalies, invalid tests, fracture or failure observations and the prospectively authorised basis for any retest.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L02-R06 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Release complete reports with actual performer, method, conditions, units, uncertainty and limitations; maintain field-specific continuing-validity evidence.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L02-R07 — Mission and environment transfer

New implementation detail aligned with ASTRA 62.1–62.2; 63.2–63.6; 64.1–64.6

1. For materials testing, define the qualified or evaluated envelope for material testing and specimen-to-parent inference.

UNSET

2. Compare the intended mission, material, site, configuration and phase/mode with the actual evidence.

UNSET

3. Identify material differences and allocate new demonstration before relying on heritage or terrestrial qualification.

UNSET

Verify: Inspect the difference matrix, environmental inputs, owner approvals and requirement-to-method links.

Acceptance: PASS only when every influential difference is either bounded by valid retained evidence or closed by accepted additional demonstration. Missing essential transfer evidence is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L02-R08 — Essential properties and observability

New implementation detail aligned with ASTRA 62.3–62.5; 77.1–77.6

1. Identify the failure and evidence risks specific to this subject: a valid specimen test can be wrongly attributed to an unrepresented lot or orientation. UNSET
2. State which critical properties are directly observed, measured, inferred using a validated model or unknown. UNSET
3. Allocate separate child predicates for each hidden property and each essential protective function. UNSET

Verify: Review detection capability, raw observations, model validity and limitations against each claimed property.

Acceptance: A valid observation supports only its demonstrated property and domain. An unobservable essential condition is HOLD, not a favourable default or a proven product defect.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L02-R09 — Configuration and data identity

New implementation detail aligned with ASTRA 33.3–33.4; 56.1–56.5; 62.7; 78.7

1. Bind material testing and specimen-to-parent inference to actual configuration, controlled technical data, source/lot or record identity, equipment and software state, authorised performer and actual event time. UNSET
2. Preserve failed runs, changed objects and prior evidence through any digital transfer. UNSET

Verify: Replay one result from original records and verify event-time authority, method version and the evaluated-to-delivered relationship.

Acceptance: PASS requires reproducible identity and valid links for the actual claim. Wrong configuration, stale state, inaccessible evidence or an unverified substituted record is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L02-R10 — Subject-specific adverse demonstration

New implementation detail aligned with ASTRA 62.6–62.7; 77.5–77.8; Annex AP

1. Challenge the following mechanism through a safe authorised test, independent record review or controlled simulation appropriate to this subject: reconstruct specimen selection, preparation, conditioning, raw response and population boundary. UNSET
2. Define the expected outcome before execution, retain original failures and repeat the failed case after correction. UNSET

Verify: Compare prospective expectations, actual observations, conditions, evidence, defect disposition and relevant regression.

Acceptance: Every essential adverse scenario must have valid accepted evidence. A scripted teaching example is not actual qualification; unavailable required observation remains HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L02-R11 — Receiving interface and bounded output

New implementation detail aligned with ASTRA 32.5; 48.4–48.6; 63.6; 80.4

1. Deliver the bounded output to materials-test signatory and product technical authority.	UNSET
2. Reconcile identity, configuration, conditions, unresolved limitations, technical eligibility, remaining duties and readable evidence.	UNSET
3. Identify the actual performer and the organisation retaining acceptance responsibility.	UNSET

Verify: Check the sending manifest, actual recipient access, acknowledgement, restrictions and remaining action owners.

Acceptance: Transfer is complete only after the necessary receiving acceptance is authentic. Sending a file, reconciling quantity or generating a certificate does not establish technical eligibility.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L02-R12 — Independent release and continuing validity

New implementation detail aligned with ASTRA 15.1–15.5; 16.1–16.6; 62.4–62.7; 80.1–80.6

1. Evaluate F03-L02 independently within its declared object and outcome class.	UNSET
2. Reconcile the original R01–R06 controls with R07–R11, applicable source requirements, prospective parameters, findings and actual authority.	UNSET
3. Monitor the subject-specific changes stated in this profile and reopen affected conclusions when the evidence changes.	UNSET

Verify: Independently replay the final predicate and inspect scope, exclusions, competence, conflict clearance, findings closure and event history.

Acceptance: No positive grant, renewal or extension while any applicable mandatory child is FAIL, HOLD or UNSET. N/A requires independent scope justification; technical concessions remain separate from conformity.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L03 — Calibration and metrology

Competence to establish and report defined measurement quantities, ranges and uncertainties under specified laboratory, on-site or mobile conditions. Scope capability and individual calibration results remain distinguishable.

Claim boundary: A calibration capability is not product conformity or assurance that every later user measurement is suitable for its decision.

F03-L03-R01 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Define the quantity, range, device classes and conditions for which calibration capability is claimed, including mobile or customer-site limitations.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L03-R02 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Verify the actual reference chain, competent service results and applicable uncertainty, rather than infer traceability from a provider logo.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L03-R03 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Maintain a complete uncertainty model, significant corrections, environmental contributions and dependence where relevant for the claimed capability.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L03-R04 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Demonstrate actual implementation on representative devices and ranges; do not publish a smaller uncertainty than the body can achieve under the declared conditions.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L03-R05 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Report the specific calibrated item, method, conditions, results/corrections, uncertainty and authorised signatory with a clear relationship to the raw evidence.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L03-R06 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Use intermediate checks, prospective interval reviews and adverse-equipment look-back analysis to protect earlier results and customer decisions.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L03-R07 — Mission and environment transfer

New implementation detail aligned with ASTRA 62.1–62.2; 63.2–63.6; 64.1–64.6

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|--|------------------------------------|
| 1. For calibration and metrology, define the qualified or evaluated envelope for calibration quantity, range and uncertainty capability. | <input type="text" value="UNSET"/> |
| 2. Compare the intended mission, material, site, configuration and phase/mode with the actual evidence. | <input type="text" value="UNSET"/> |
| 3. Identify material differences and allocate new demonstration before relying on heritage or terrestrial qualification. | <input type="text" value="UNSET"/> |

Verify: Inspect the difference matrix, environmental inputs, owner approvals and requirement-to-method links.

Acceptance: PASS only when every influential difference is either bounded by valid retained evidence or closed by accepted additional demonstration. Missing essential transfer evidence is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L03-R08 — Essential properties and observability

New implementation detail aligned with ASTRA 62.3–62.5; 77.1–77.6

- | | |
|--|------------------------------------|
| 1. Identify the failure and evidence risks specific to this subject: a quoted best capability can understate uncertainty in an actual mobile or adverse environment. | <input type="text" value="UNSET"/> |
| 2. State which critical properties are directly observed, measured, inferred using a validated model or unknown. | <input type="text" value="UNSET"/> |
| 3. Allocate separate child predicates for each hidden property and each essential protective function. | <input type="text" value="UNSET"/> |

Verify: Review detection capability, raw observations, model validity and limitations against each claimed property.

Acceptance: A valid observation supports only its demonstrated property and domain. An unobservable essential condition is HOLD, not a favourable default or a proven product defect.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L03-R09 – Configuration and data identity

New implementation detail aligned with ASTRA 33.3–33.4; 56.1–56.5; 62.7; 78.7

1. Bind calibration quantity, range and uncertainty capability to actual configuration, controlled technical data, source/lot or record identity, equipment and software state, authorised performer and actual event time. UNSET

2. Preserve failed runs, changed objects and prior evidence through any digital transfer. UNSET

Verify: Replay one result from original records and verify event-time authority, method version and the evaluated-to-delivered relationship.

Acceptance: PASS requires reproducible identity and valid links for the actual claim. Wrong configuration, stale state, inaccessible evidence or an unverified substituted record is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L03-R10 – Subject-specific adverse demonstration

New implementation detail aligned with ASTRA 62.6–62.7; 77.5–77.8; Annex AP

1. Challenge the following mechanism through a safe authorised test, independent record review or controlled simulation appropriate to this subject: recalculate the actual uncertainty budget with corrections, dependence and use conditions. UNSET

2. Define the expected outcome before execution, retain original failures and repeat the failed case after correction. UNSET

Verify: Compare prospective expectations, actual observations, conditions, evidence, defect disposition and relevant regression.

Acceptance: Every essential adverse scenario must have valid accepted evidence. A scripted teaching example is not actual qualification; unavailable required observation remains HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L03-R11 – Receiving interface and bounded output

New implementation detail aligned with ASTRA 32.5; 48.4–48.6; 63.6; 80.4

1. Deliver the bounded output to calibration signatory and instrument user. UNSET

2. Reconcile identity, configuration, conditions, unresolved limitations, technical eligibility, remaining duties and readable evidence. UNSET

3. Identify the actual performer and the organisation retaining acceptance responsibility. UNSET

Verify: Check the sending manifest, actual recipient access, acknowledgement, restrictions and remaining action owners.

Acceptance: Transfer is complete only after the necessary receiving acceptance is authentic. Sending a file, reconciling quantity or generating a certificate does not establish technical eligibility.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L03-R12 — Independent release and continuing validity

New implementation detail aligned with ASTRA 15.1–15.5; 16.1–16.6; 62.4–62.7; 80.1–80.6

1. Evaluate F03-L03 independently within its declared object and outcome class.	UNSET
2. Reconcile the original R01–R06 controls with R07–R11, applicable source requirements, prospective parameters, findings and actual authority.	UNSET
3. Monitor the subject-specific changes stated in this profile and reopen affected conclusions when the evidence changes.	UNSET

Verify: Independently replay the final predicate and inspect scope, exclusions, competence, conflict clearance, findings closure and event history.

Acceptance: No positive grant, renewal or extension while any applicable mandatory child is FAIL, HOLD or UNSET. N/A requires independent scope justification; technical concessions remain separate from conformity.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L04 — Inspection body activities

Competence to inspect defined products, installations, processes or services at stated lifecycle stages. The declared independence relationship may be third-party or an explicitly identified internal/related relationship; wording must match the actual arrangement.

Claim boundary: An inspection competence result does not certify every inspected item or convert internal inspection into third-party certification.

F03-L04-R01 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Identify the inspected object, stage, criteria and relationship to design, production, ownership or service; do not imply independent third-party status where absent.	UNSET
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Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L04-R02 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Define inspection methods, sampling, access, instrument use, records and the judgement competence needed to reach the stated conclusion. UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L04-R03 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Demonstrate personnel authority and practical ability with representative objects and ambiguous/adverse cases, not only document review. UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L04-R04 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Validate remote imagery, scans, drones or automated classification for the intended property and expose inaccessible features and detection limits. UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L04-R05 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Preserve actual inspection observations, technical interpretations, deviations, opinions and complete reports linked to the evaluated configuration.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L04-R06 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Control nonconforming work, complaints, reinspection, changes and outsourced evidence with independent decisions appropriate to the claimed relationship.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L04-R07 — Mission and environment transfer

New implementation detail aligned with ASTRA 62.1–62.2; 63.2–63.6; 64.1–64.6

1. For inspection body activities, define the qualified or evaluated envelope for inspection object, access and independence relationship.

UNSET

2. Compare the intended mission, material, site, configuration and phase/mode with the actual evidence.

UNSET

3. Identify material differences and allocate new demonstration before relying on heritage or terrestrial qualification.

UNSET

Verify: Inspect the difference matrix, environmental inputs, owner approvals and requirement-to-method links.

Acceptance: PASS only when every influential difference is either bounded by valid retained evidence or closed by accepted additional demonstration. Missing essential transfer evidence is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L04-R08 — Essential properties and observability

New implementation detail aligned with ASTRA 62.3–62.5; 77.1–77.6

- | | |
|---|-------|
| 1. Identify the failure and evidence risks specific to this subject: remote imagery may not show a concealed characteristic required for the inspection conclusion. | UNSET |
| 2. State which critical properties are directly observed, measured, inferred using a validated model or unknown. | UNSET |
| 3. Allocate separate child predicates for each hidden property and each essential protective function. | UNSET |

Verify: Review detection capability, raw observations, model validity and limitations against each claimed property.

Acceptance: A valid observation supports only its demonstrated property and domain. An unobservable essential condition is HOLD, not a favourable default or a proven product defect.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L04-R09 — Configuration and data identity

New implementation detail aligned with ASTRA 33.3–33.4; 56.1–56.5; 62.7; 78.7

- | | |
|--|-------|
| 1. Bind inspection object, access and independence relationship to actual configuration, controlled technical data, source/lot or record identity, equipment and software state, authorised performer and actual event time. | UNSET |
| 2. Preserve failed runs, changed objects and prior evidence through any digital transfer. | UNSET |

Verify: Replay one result from original records and verify event-time authority, method version and the evaluated-to-delivered relationship.

Acceptance: PASS requires reproducible identity and valid links for the actual claim. Wrong configuration, stale state, inaccessible evidence or an unverified substituted record is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L04-R10 — Subject-specific adverse demonstration

New implementation detail aligned with ASTRA 62.6–62.7; 77.5–77.8; Annex AP

- | | |
|--|-------|
| 1. Challenge the following mechanism through a safe authorised test, independent record review or controlled simulation appropriate to this subject: compare inspection plan, access limits, original images and independently justified supplementary evidence. | UNSET |
| 2. Define the expected outcome before execution, retain original failures and repeat the failed case after correction. | UNSET |

Verify: Compare prospective expectations, actual observations, conditions, evidence, defect disposition and relevant regression.

Acceptance: Every essential adverse scenario must have valid accepted evidence. A scripted teaching example is not actual qualification; unavailable required observation remains HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L04-R11 — Receiving interface and bounded output

New implementation detail aligned with ASTRA 32.5; 48.4–48.6; 63.6; 80.4

1. Deliver the bounded output to inspection signatory and accepting asset owner.	UNSET
2. Reconcile identity, configuration, conditions, unresolved limitations, technical eligibility, remaining duties and readable evidence.	UNSET
3. Identify the actual performer and the organisation retaining acceptance responsibility.	UNSET

Verify: Check the sending manifest, actual recipient access, acknowledgement, restrictions and remaining action owners.

Acceptance: Transfer is complete only after the necessary receiving acceptance is authentic. Sending a file, reconciling quantity or generating a certificate does not establish technical eligibility.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L04-R12 — Independent release and continuing validity

New implementation detail aligned with ASTRA 15.1–15.5; 16.1–16.6; 62.4–62.7; 80.1–80.6

1. Evaluate F03-L04 independently within its declared object and outcome class.	UNSET
2. Reconcile the original R01–R06 controls with R07–R11, applicable source requirements, prospective parameters, findings and actual authority.	UNSET
3. Monitor the subject-specific changes stated in this profile and reopen affected conclusions when the evidence changes.	UNSET

Verify: Independently replay the final predicate and inspect scope, exclusions, competence, conflict clearance, findings closure and event history.

Acceptance: No positive grant, renewal or extension while any applicable mandatory child is FAIL, HOLD or UNSET. N/A requires independent scope justification; technical concessions remain separate from conformity.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L05 — Management-system certification bodies

Competence and impartial operation of a body providing management-system certification for specified schemes, sectors, organisational scopes and consequence levels. The full application-to-decision cycle is within scope, not just audit delivery.

Claim boundary: Accreditation of the body does not certify the body own consultancy work or establish conformity of every client without a separate case decision.

F03-L05-R01 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Define actual scheme and sector competence, legal responsibility and the organisation holding final certification decision authority.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L05-R02 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Verify admission, conflict screening, audit-team competence and necessary technical specialists for each accepted organisational scope.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L05-R03 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Apply appropriate readiness/implementation, time and site requirements; an AF 9100 claim uses its full controlling provisions rather than a generic audit-duration shortcut.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L05-R04 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Demonstrate evidence-led auditing of real processes, outputs, adverse records and systemic controls with accurate completed coverage.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L05-R05 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Separate evaluation from independent review/decision, close in-scope nonconformities before new grants/renewals/extensions and preserve dissent and actual dates.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L05-R06 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Maintain surveillance, change, renewal, remedies, mark control and truthful status history; control outsourced audits without transferring retained final responsibility.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L05-R07 — Mission and environment transfer

New implementation detail aligned with ASTRA 62.1–62.2; 63.2–63.6; 64.1–64.6

- | | |
|--|------------------------------------|
| 1. For management-system certification bodies, define the qualified or evaluated envelope for management-system certification decisions. | <input type="text" value="UNSET"/> |
| 2. Compare the intended mission, material, site, configuration and phase/mode with the actual evidence. | <input type="text" value="UNSET"/> |
| 3. Identify material differences and allocate new demonstration before relying on heritage or terrestrial qualification. | <input type="text" value="UNSET"/> |

Verify: Inspect the difference matrix, environmental inputs, owner approvals and requirement-to-method links.

Acceptance: PASS only when every influential difference is either bounded by valid retained evidence or closed by accepted additional demonstration. Missing essential transfer evidence is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L05-R08 — Essential properties and observability

New implementation detail aligned with ASTRA 62.3–62.5; 77.1–77.6

- | | |
|---|------------------------------------|
| 1. Identify the failure and evidence risks specific to this subject: a complete audit report can conceal inadequate competence for a mission-critical technical boundary. | <input type="text" value="UNSET"/> |
| 2. State which critical properties are directly observed, measured, inferred using a validated model or unknown. | <input type="text" value="UNSET"/> |
| 3. Allocate separate child predicates for each hidden property and each essential protective function. | <input type="text" value="UNSET"/> |

Verify: Review detection capability, raw observations, model validity and limitations against each claimed property.

Acceptance: A valid observation supports only its demonstrated property and domain. An unobservable essential condition is HOLD, not a favourable default or a proven product defect.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L05-R09 – Configuration and data identity

New implementation detail aligned with ASTRA 33.3–33.4; 56.1–56.5; 62.7; 78.7

1. Bind management-system certification decisions to actual configuration, controlled technical data, source/lot or record identity, equipment and software state, authorised performer and actual event time. UNSET

2. Preserve failed runs, changed objects and prior evidence through any digital transfer. UNSET

Verify: Replay one result from original records and verify event-time authority, method version and the evaluated-to-delivered relationship.

Acceptance: PASS requires reproducible identity and valid links for the actual claim. Wrong configuration, stale state, inaccessible evidence or an unverified substituted record is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L05-R10 – Subject-specific adverse demonstration

New implementation detail aligned with ASTRA 62.6–62.7; 77.5–77.8; Annex AP

1. Challenge the following mechanism through a safe authorised test, independent record review or controlled simulation appropriate to this subject: trace application, team coverage, evaluated sites, findings, independent review and final system wording. UNSET

2. Define the expected outcome before execution, retain original failures and repeat the failed case after correction. UNSET

Verify: Compare prospective expectations, actual observations, conditions, evidence, defect disposition and relevant regression.

Acceptance: Every essential adverse scenario must have valid accepted evidence. A scripted teaching example is not actual qualification; unavailable required observation remains HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L05-R11 – Receiving interface and bounded output

New implementation detail aligned with ASTRA 32.5; 48.4–48.6; 63.6; 80.4

1. Deliver the bounded output to certification decision function and public registry custodian. UNSET

2. Reconcile identity, configuration, conditions, unresolved limitations, technical eligibility, remaining duties and readable evidence. UNSET

3. Identify the actual performer and the organisation retaining acceptance responsibility. UNSET

Verify: Check the sending manifest, actual recipient access, acknowledgement, restrictions and remaining action owners.

Acceptance: Transfer is complete only after the necessary receiving acceptance is authentic. Sending a file, reconciling quantity or generating a certificate does not establish technical eligibility.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L05-R12 — Independent release and continuing validity

New implementation detail aligned with ASTRA 15.1–15.5; 16.1–16.6; 62.4–62.7; 80.1–80.6

1. Evaluate F03-L05 independently within its declared object and outcome class.	UNSET
2. Reconcile the original R01–R06 controls with R07–R11, applicable source requirements, prospective parameters, findings and actual authority.	UNSET
3. Monitor the subject-specific changes stated in this profile and reopen affected conclusions when the evidence changes.	UNSET

Verify: Independently replay the final predicate and inspect scope, exclusions, competence, conflict clearance, findings closure and event history.

Acceptance: No positive grant, renewal or extension while any applicable mandatory child is FAIL, HOLD or UNSET. N/A requires independent scope justification; technical concessions remain separate from conformity.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L06 — Product, process and service certification bodies

Bodies evaluating and certifying defined products, processes or services through instance or ongoing conformity models. Specify technical evaluation capability, production/service controls, sampling, independent decisions and continuing claim rules.

Claim boundary: Body accreditation is not blanket product approval; one instance test cannot authorise indefinite family production.

F03-L06-R01 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Identify each object and conformity model, separating process qualification, routine acceptance and independent certification.	UNSET
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Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L06-R02 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Complete technical profiles with actual characteristics, conditions, methods, uncertainty, essential failures and permitted claim boundaries before evaluation.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L06-R03 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Demonstrate competence in the necessary product/process/service methods; an organisational auditor alone does not cover every specialist evaluation.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L06-R04 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Verify representative test or service evidence and relevant production/delivery controls for an ongoing family rather than rely on one favourable prototype.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L06-R05 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Retain final independent review and decision responsibility, evaluate outsourced technical results and close all in-scope nonconformities for new positive outcomes.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L06-R06 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Control marks, sample/product identity, changes, complaints, surveillance and historical corrections according to the chosen instance or ongoing model.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L06-R07 — Mission and environment transfer

New implementation detail aligned with ASTRA 62.1–62.2; 63.2–63.6; 64.1–64.6

1. For product, process and service certification bodies, define the qualified or evaluated envelope for object-specific product, process or service certification.

UNSET

2. Compare the intended mission, material, site, configuration and phase/mode with the actual evidence.

UNSET

3. Identify material differences and allocate new demonstration before relying on heritage or terrestrial qualification.

UNSET

Verify: Inspect the difference matrix, environmental inputs, owner approvals and requirement-to-method links.

Acceptance: PASS only when every influential difference is either bounded by valid retained evidence or closed by accepted additional demonstration. Missing essential transfer evidence is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L06-R08 — Essential properties and observability

New implementation detail aligned with ASTRA 62.3–62.5; 77.1–77.6

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|--|-------|
| 1. Identify the failure and evidence risks specific to this subject: supplier competence can be confused with acceptance of the actual evaluated object. | UNSET |
| 2. State which critical properties are directly observed, measured, inferred using a validated model or unknown. | UNSET |
| 3. Allocate separate child predicates for each hidden property and each essential protective function. | UNSET |

Verify: Review detection capability, raw observations, model validity and limitations against each claimed property.

Acceptance: A valid observation supports only its demonstrated property and domain. An unobservable essential condition is HOLD, not a favourable default or a proven product defect.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L06-R09 — Configuration and data identity

New implementation detail aligned with ASTRA 33.3–33.4; 56.1–56.5; 62.7; 78.7

- | | |
|--|-------|
| 1. Bind object-specific product, process or service certification to actual configuration, controlled technical data, source/lot or record identity, equipment and software state, authorised performer and actual event time. | UNSET |
| 2. Preserve failed runs, changed objects and prior evidence through any digital transfer. | UNSET |

Verify: Replay one result from original records and verify event-time authority, method version and the evaluated-to-delivered relationship.

Acceptance: PASS requires reproducible identity and valid links for the actual claim. Wrong configuration, stale state, inaccessible evidence or an unverified substituted record is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L06-R10 — Subject-specific adverse demonstration

New implementation detail aligned with ASTRA 62.6–62.7; 77.5–77.8; Annex AP

- | | |
|---|-------|
| 1. Challenge the following mechanism through a safe authorised test, independent record review or controlled simulation appropriate to this subject: reconcile instance/ongoing model, technical tests, routine controls and independent bounded outcome. | UNSET |
| 2. Define the expected outcome before execution, retain original failures and repeat the failed case after correction. | UNSET |

Verify: Compare prospective expectations, actual observations, conditions, evidence, defect disposition and relevant regression.

Acceptance: Every essential adverse scenario must have valid accepted evidence. A scripted teaching example is not actual qualification; unavailable required observation remains HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L06-R11 — Receiving interface and bounded output

New implementation detail aligned with ASTRA 32.5; 48.4–48.6; 63.6; 80.4

1. Deliver the bounded output to certification authority and holder of the exact object claim.	UNSET
2. Reconcile identity, configuration, conditions, unresolved limitations, technical eligibility, remaining duties and readable evidence.	UNSET
3. Identify the actual performer and the organisation retaining acceptance responsibility.	UNSET

Verify: Check the sending manifest, actual recipient access, acknowledgement, restrictions and remaining action owners.

Acceptance: Transfer is complete only after the necessary receiving acceptance is authentic. Sending a file, reconciling quantity or generating a certificate does not establish technical eligibility.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L06-R12 — Independent release and continuing validity

New implementation detail aligned with ASTRA 15.1–15.5; 16.1–16.6; 62.4–62.7; 80.1–80.6

1. Evaluate F03-L06 independently within its declared object and outcome class.	UNSET
2. Reconcile the original R01–R06 controls with R07–R11, applicable source requirements, prospective parameters, findings and actual authority.	UNSET
3. Monitor the subject-specific changes stated in this profile and reopen affected conclusions when the evidence changes.	UNSET

Verify: Independently replay the final predicate and inspect scope, exclusions, competence, conflict clearance, findings closure and event history.

Acceptance: No positive grant, renewal or extension while any applicable mandatory child is FAIL, HOLD or UNSET. N/A requires independent scope justification; technical concessions remain separate from conformity.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L07 — Personnel certification bodies

Bodies independently assessing competence against defined jobs, roles, levels and practical tasks. Learning provision, secure examination, certification, employer task authorisation and occupational licensing remain distinct.

Claim boundary: A personnel credential does not itself authorise aircraft release, restricted testing or every task performed by the employer.

F03-L07-R01 – Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Validate the actual role/task profile and fair prerequisite basis with a coherent relationship between claimed competence and assessed activities.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L07-R02 – Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Secure candidate identity, question/scenario content, attempts, scoring and authorised accommodations without changing the competence being assessed.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L07-R03 – Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Demonstrate representative practical assessment and separately record each essential safety, integrity and independence step.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L07-R04 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Control training/examination relationships and ensure independent decisions rather than a guaranteed credential from course purchase or attendance.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L07-R05 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Preserve failed attempts, justified remediation and equivalent reassessment; apply the complete applicable source minima without averaging an essential failure into a pass.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L07-R06 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Issue bounded credentials and maintain actual currency, renewal, complaint/appeal and correction processes separate from employer or statutory privileges.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L07-R07 — Mission and environment transfer

New implementation detail aligned with ASTRA 62.1–62.2; 63.2–63.6; 64.1–64.6

- | | |
|---|-------|
| 1. For personnel certification bodies, define the qualified or evaluated envelope for personnel certification and essential practical skills. | UNSET |
| 2. Compare the intended mission, material, site, configuration and phase/mode with the actual evidence. | UNSET |
| 3. Identify material differences and allocate new demonstration before relying on heritage or terrestrial qualification. | UNSET |

Verify: Inspect the difference matrix, environmental inputs, owner approvals and requirement-to-method links.

Acceptance: PASS only when every influential difference is either bounded by valid retained evidence or closed by accepted additional demonstration. Missing essential transfer evidence is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L07-R08 — Essential properties and observability

New implementation detail aligned with ASTRA 62.3–62.5; 77.1–77.6

- | | |
|--|-------|
| 1. Identify the failure and evidence risks specific to this subject: a high aggregate score can conceal failure of one essential task or an insecure identity check. | UNSET |
| 2. State which critical properties are directly observed, measured, inferred using a validated model or unknown. | UNSET |
| 3. Allocate separate child predicates for each hidden property and each essential protective function. | UNSET |

Verify: Review detection capability, raw observations, model validity and limitations against each claimed property.

Acceptance: A valid observation supports only its demonstrated property and domain. An unobservable essential condition is HOLD, not a favourable default or a proven product defect.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L07-R09 – Configuration and data identity

New implementation detail aligned with ASTRA 33.3–33.4; 56.1–56.5; 62.7; 78.7

1. Bind personnel certification and essential practical skills to actual configuration, controlled technical data, source/lot or record identity, equipment and software state, authorised performer and actual event time.

UNSET

2. Preserve failed runs, changed objects and prior evidence through any digital transfer.

UNSET

Verify: Replay one result from original records and verify event-time authority, method version and the evaluated-to-delivered relationship.

Acceptance: PASS requires reproducible identity and valid links for the actual claim. Wrong configuration, stale state, inaccessible evidence or an unverified substituted record is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L07-R10 – Subject-specific adverse demonstration

New implementation detail aligned with ASTRA 62.6–62.7; 77.5–77.8; Annex AP

1. Challenge the following mechanism through a safe authorised test, independent record review or controlled simulation appropriate to this subject: review the blueprint, authentic attempts, separate essential-step outcomes and independent decision.

UNSET

2. Define the expected outcome before execution, retain original failures and repeat the failed case after correction.

UNSET

Verify: Compare prospective expectations, actual observations, conditions, evidence, defect disposition and relevant regression.

Acceptance: Every essential adverse scenario must have valid accepted evidence. A scripted teaching example is not actual qualification; unavailable required observation remains HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L07-R11 – Receiving interface and bounded output

New implementation detail aligned with ASTRA 32.5; 48.4–48.6; 63.6; 80.4

1. Deliver the bounded output to personnel decision function and credential custodian.

UNSET

2. Reconcile identity, configuration, conditions, unresolved limitations, technical eligibility, remaining duties and readable evidence.

UNSET

3. Identify the actual performer and the organisation retaining acceptance responsibility.

UNSET

Verify: Check the sending manifest, actual recipient access, acknowledgement, restrictions and remaining action owners.

Acceptance: Transfer is complete only after the necessary receiving acceptance is authentic. Sending a file, reconciling quantity or generating a certificate does not establish technical eligibility.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L07-R12 — Independent release and continuing validity

New implementation detail aligned with ASTRA 15.1–15.5; 16.1–16.6; 62.4–62.7; 80.1–80.6

1. Evaluate F03-L07 independently within its declared object and outcome class.	UNSET
2. Reconcile the original R01–R06 controls with R07–R11, applicable source requirements, prospective parameters, findings and actual authority.	UNSET
3. Monitor the subject-specific changes stated in this profile and reopen affected conclusions when the evidence changes.	UNSET

Verify: Independently replay the final predicate and inspect scope, exclusions, competence, conflict clearance, findings closure and event history.

Acceptance: No positive grant, renewal or extension while any applicable mandatory child is FAIL, HOLD or UNSET. N/A requires independent scope justification; technical concessions remain separate from conformity.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L08 — Validation and verification bodies

Bodies evaluating specified historical or prospective claims for defined sectors, methods, data and assurance forms. Statement preparation and independent evaluation of the same statement must be separated.

Claim boundary: Accreditation concerns body competence and is not endorsement of every future statement it issues.

F03-L08-R01 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Define competence for the actual claim, sector, data, method and assurance form rather than claim unrestricted verification authority.	UNSET
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Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L08-R02 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Separate client statement preparation and consultancy from independent validation/verification roles and final decision responsibility.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L08-R03 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Accept the engagement with prospective boundaries, materiality, assurance objective, resources and evidence plan.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L08-R04 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Demonstrate actual substantive and control testing, estimation challenge, source reconciliation and preservation of misstatements and corrections.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L08-R05 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Independently review sufficiency and issue appropriately bounded conclusions that distinguish historical facts from future assumptions. UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L08-R06 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Preserve exact statement versions, communicate later material errors and maintain continuing competence and lawful evidence access. UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L08-R07 — Mission and environment transfer

New implementation detail aligned with ASTRA 62.1–62.2; 63.2–63.6; 64.1–64.6

1. For validation and verification bodies, define the qualified or evaluated envelope for statement validation or verification competence. UNSET
2. Compare the intended mission, material, site, configuration and phase/mode with the actual evidence. UNSET
3. Identify material differences and allocate new demonstration before relying on heritage or terrestrial qualification. UNSET

Verify: Inspect the difference matrix, environmental inputs, owner approvals and requirement-to-method links.

Acceptance: PASS only when every influential difference is either bounded by valid retained evidence or closed by accepted additional demonstration. Missing essential transfer evidence is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L08-R08 — Essential properties and observability

New implementation detail aligned with ASTRA 62.3–62.5; 77.1–77.6

- | | |
|---|-------|
| 1. Identify the failure and evidence risks specific to this subject: a sound calculation can still concern the wrong boundary or an unverified future assumption. | UNSET |
| 2. State which critical properties are directly observed, measured, inferred using a validated model or unknown. | UNSET |
| 3. Allocate separate child predicates for each hidden property and each essential protective function. | UNSET |

Verify: Review detection capability, raw observations, model validity and limitations against each claimed property.

Acceptance: A valid observation supports only its demonstrated property and domain. An unobservable essential condition is HOLD, not a favourable default or a proven product defect.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L08-R09 — Configuration and data identity

New implementation detail aligned with ASTRA 33.3–33.4; 56.1–56.5; 62.7; 78.7

- | | |
|--|-------|
| 1. Bind statement validation or verification competence to actual configuration, controlled technical data, source/lot or record identity, equipment and software state, authorised performer and actual event time. | UNSET |
| 2. Preserve failed runs, changed objects and prior evidence through any digital transfer. | UNSET |

Verify: Replay one result from original records and verify event-time authority, method version and the evaluated-to-delivered relationship.

Acceptance: PASS requires reproducible identity and valid links for the actual claim. Wrong configuration, stale state, inaccessible evidence or an unverified substituted record is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L08-R10 — Subject-specific adverse demonstration

New implementation detail aligned with ASTRA 62.6–62.7; 77.5–77.8; Annex AP

- | | |
|--|-------|
| 1. Challenge the following mechanism through a safe authorised test, independent record review or controlled simulation appropriate to this subject: trace engagement purpose, claim, materiality, data rights, source records and independent conclusion. | UNSET |
| 2. Define the expected outcome before execution, retain original failures and repeat the failed case after correction. | UNSET |

Verify: Compare prospective expectations, actual observations, conditions, evidence, defect disposition and relevant regression.

Acceptance: Every essential adverse scenario must have valid accepted evidence. A scripted teaching example is not actual qualification; unavailable required observation remains HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L08-R11 — Receiving interface and bounded output

New implementation detail aligned with ASTRA 32.5; 48.4–48.6; 63.6; 80.4

1. Deliver the bounded output to verification authority and statement owner.	UNSET
2. Reconcile identity, configuration, conditions, unresolved limitations, technical eligibility, remaining duties and readable evidence.	UNSET
3. Identify the actual performer and the organisation retaining acceptance responsibility.	UNSET

Verify: Check the sending manifest, actual recipient access, acknowledgement, restrictions and remaining action owners.

Acceptance: Transfer is complete only after the necessary receiving acceptance is authentic. Sending a file, reconciling quantity or generating a certificate does not establish technical eligibility.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L08-R12 — Independent release and continuing validity

New implementation detail aligned with ASTRA 15.1–15.5; 16.1–16.6; 62.4–62.7; 80.1–80.6

1. Evaluate F03-L08 independently within its declared object and outcome class.	UNSET
2. Reconcile the original R01–R06 controls with R07–R11, applicable source requirements, prospective parameters, findings and actual authority.	UNSET
3. Monitor the subject-specific changes stated in this profile and reopen affected conclusions when the evidence changes.	UNSET

Verify: Independently replay the final predicate and inspect scope, exclusions, competence, conflict clearance, findings closure and event history.

Acceptance: No positive grant, renewal or extension while any applicable mandatory child is FAIL, HOLD or UNSET. N/A requires independent scope justification; technical concessions remain separate from conformity.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L09 — Proficiency activity providers

Providers designing and administering competence-comparison exercises for specified methods, materials and participant populations. A laboratory accreditation does not automatically confer this specialised capability.

Claim boundary: No universal proficiency score or assigned-value recipe is supplied; the technical profile must justify them for the actual exercise.

F03-L09-R01 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Define the technical purpose, participant population, method boundaries and what performance conclusions the exercise can validly support.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L09-R02 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Demonstrate suitable item production/selection, identity, homogeneity, stability, packaging and distribution over the intended exercise conditions.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L09-R03 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Establish and justify assigned values, reference basis, uncertainty and performance-evaluation models prospectively.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L09-R04 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Control participant confidentiality, submission identity, instructions, timing, collusion/influence risks and handling of incomplete or exceptional results.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L09-R05 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Report methods, statistical assumptions, limitations, individual outcomes and justified corrections without converting participation into satisfactory performance.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L09-R06 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Validate provider competence, software, data handling and independent review for the specialised route before live release.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L09-R07 — Mission and environment transfer

New implementation detail aligned with ASTRA 62.1–62.2; 63.2–63.6; 64.1–64.6

- | | |
|--|------------------------------------|
| 1. For proficiency activity providers, define the qualified or evaluated envelope for proficiency exercise design and participant comparisons. | <input type="text" value="UNSET"/> |
| 2. Compare the intended mission, material, site, configuration and phase/mode with the actual evidence. | <input type="text" value="UNSET"/> |
| 3. Identify material differences and allocate new demonstration before relying on heritage or terrestrial qualification. | <input type="text" value="UNSET"/> |

Verify: Inspect the difference matrix, environmental inputs, owner approvals and requirement-to-method links.

Acceptance: PASS only when every influential difference is either bounded by valid retained evidence or closed by accepted additional demonstration. Missing essential transfer evidence is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L09-R08 — Essential properties and observability

New implementation detail aligned with ASTRA 62.3–62.5; 77.1–77.6

- | | |
|--|------------------------------------|
| 1. Identify the failure and evidence risks specific to this subject: apparent participant disagreement may arise from unstable or non-homogeneous comparison material. | <input type="text" value="UNSET"/> |
| 2. State which critical properties are directly observed, measured, inferred using a validated model or unknown. | <input type="text" value="UNSET"/> |
| 3. Allocate separate child predicates for each hidden property and each essential protective function. | <input type="text" value="UNSET"/> |

Verify: Review detection capability, raw observations, model validity and limitations against each claimed property.

Acceptance: A valid observation supports only its demonstrated property and domain. An unobservable essential condition is HOLD, not a favourable default or a proven product defect.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L09-R09 – Configuration and data identity

New implementation detail aligned with ASTRA 33.3–33.4; 56.1–56.5; 62.7; 78.7

1. Bind proficiency exercise design and participant comparisons to actual configuration, controlled technical data, source/lot or record identity, equipment and software state, authorised performer and actual event time.

UNSET

2. Preserve failed runs, changed objects and prior evidence through any digital transfer.

UNSET

Verify: Replay one result from original records and verify event-time authority, method version and the evaluated-to-delivered relationship.

Acceptance: PASS requires reproducible identity and valid links for the actual claim. Wrong configuration, stale state, inaccessible evidence or an unverified substituted record is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L09-R10 – Subject-specific adverse demonstration

New implementation detail aligned with ASTRA 62.6–62.7; 77.5–77.8; Annex AP

1. Challenge the following mechanism through a safe authorised test, independent record review or controlled simulation appropriate to this subject: separate assigned-value uncertainty, stability, transport and participant evidence before evaluation.

UNSET

2. Define the expected outcome before execution, retain original failures and repeat the failed case after correction.

UNSET

Verify: Compare prospective expectations, actual observations, conditions, evidence, defect disposition and relevant regression.

Acceptance: Every essential adverse scenario must have valid accepted evidence. A scripted teaching example is not actual qualification; unavailable required observation remains HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L09-R11 – Receiving interface and bounded output

New implementation detail aligned with ASTRA 32.5; 48.4–48.6; 63.6; 80.4

1. Deliver the bounded output to exercise technical owner and each participant recipient.

UNSET

2. Reconcile identity, configuration, conditions, unresolved limitations, technical eligibility, remaining duties and readable evidence.

UNSET

3. Identify the actual performer and the organisation retaining acceptance responsibility.

UNSET

Verify: Check the sending manifest, actual recipient access, acknowledgement, restrictions and remaining action owners.

Acceptance: Transfer is complete only after the necessary receiving acceptance is authentic. Sending a file, reconciling quantity or generating a certificate does not establish technical eligibility.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L09-R12 — Independent release and continuing validity

New implementation detail aligned with ASTRA 15.1–15.5; 16.1–16.6; 62.4–62.7; 80.1–80.6

1. Evaluate F03-L09 independently within its declared object and outcome class.	UNSET
2. Reconcile the original R01–R06 controls with R07–R11, applicable source requirements, prospective parameters, findings and actual authority.	UNSET
3. Monitor the subject-specific changes stated in this profile and reopen affected conclusions when the evidence changes.	UNSET

Verify: Independently replay the final predicate and inspect scope, exclusions, competence, conflict clearance, findings closure and event history.

Acceptance: No positive grant, renewal or extension while any applicable mandatory child is FAIL, HOLD or UNSET. N/A requires independent scope justification; technical concessions remain separate from conformity.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L10 — Reference material producers

Producers of reference materials for specified properties and intended uses, including production control, characterisation, homogeneity, stability, uncertainty, documentation and distribution.

Claim boundary: A nominal value with unknown provenance cannot support metrological traceability or a broader property claim.

F03-L10-R01 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Define the reference material, property, matrix, intended use and limitations before selecting production and characterisation methods.	UNSET
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Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L10-R02 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Control source materials, production, lot identity, contamination, packaging and distribution so the characterised material corresponds to supplied units.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L10-R03 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Demonstrate relevant homogeneity and stability under intended storage, transport and use conditions with a technically justified design.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L10-R04 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Justify property characterisation, reference basis, uncertainty and the competence of contributing methods or laboratories.

UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L10-R05 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Provide documentation linking property values, uncertainties, instructions, validity/conditions and limitations to the actual lot and responsible issuer. UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L10-R06 — Retained subject control

Retained operating subject control; latest core 19; 62 and Annex AL.

1. Investigate changes or adverse stability evidence, correct affected documentation and notify users; ordinary testing accreditation is not this specialised qualification. UNSET

Verify: Trace each independently testable condition to its actual criterion, method, evidence, responsible performer and independent reviewer.

Acceptance: Every mandatory child predicate is satisfied by valid evidence. Unresolved applicability or evidence is HOLD; demonstrated unmet criteria are FAIL.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L10-R07 — Mission and environment transfer

New implementation detail aligned with ASTRA 62.1–62.2; 63.2–63.6; 64.1–64.6

1. For reference material producers, define the qualified or evaluated envelope for reference-material characterisation and supplied units. UNSET
2. Compare the intended mission, material, site, configuration and phase/mode with the actual evidence. UNSET
3. Identify material differences and allocate new demonstration before relying on heritage or terrestrial qualification. UNSET

Verify: Inspect the difference matrix, environmental inputs, owner approvals and requirement-to-method links.

Acceptance: PASS only when every influential difference is either bounded by valid retained evidence or closed by accepted additional demonstration. Missing essential transfer evidence is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L10-R08 — Essential properties and observability

New implementation detail aligned with ASTRA 62.3–62.5; 77.1–77.6

- | | |
|--|-------|
| 1. Identify the failure and evidence risks specific to this subject: a characterised batch may not remain stable in the actual dispatched units or use period. | UNSET |
| 2. State which critical properties are directly observed, measured, inferred using a validated model or unknown. | UNSET |
| 3. Allocate separate child predicates for each hidden property and each essential protective function. | UNSET |

Verify: Review detection capability, raw observations, model validity and limitations against each claimed property.

Acceptance: A valid observation supports only its demonstrated property and domain. An unobservable essential condition is HOLD, not a favourable default or a proven product defect.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L10-R09 — Configuration and data identity

New implementation detail aligned with ASTRA 33.3–33.4; 56.1–56.5; 62.7; 78.7

- | | |
|---|-------|
| 1. Bind reference-material characterisation and supplied units to actual configuration, controlled technical data, source/lot or record identity, equipment and software state, authorised performer and actual event time. | UNSET |
| 2. Preserve failed runs, changed objects and prior evidence through any digital transfer. | UNSET |

Verify: Replay one result from original records and verify event-time authority, method version and the evaluated-to-delivered relationship.

Acceptance: PASS requires reproducible identity and valid links for the actual claim. Wrong configuration, stale state, inaccessible evidence or an unverified substituted record is HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L10-R10 — Subject-specific adverse demonstration

New implementation detail aligned with ASTRA 62.6–62.7; 77.5–77.8; Annex AP

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|---|-------|
| 1. Challenge the following mechanism through a safe authorised test, independent record review or controlled simulation appropriate to this subject: review sampling, homogeneity, stability, property value, uncertainty and distribution history. | UNSET |
| 2. Define the expected outcome before execution, retain original failures and repeat the failed case after correction. | UNSET |

Verify: Compare prospective expectations, actual observations, conditions, evidence, defect disposition and relevant regression.

Acceptance: Every essential adverse scenario must have valid accepted evidence. A scripted teaching example is not actual qualification; unavailable required observation remains HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L10-R11 — Receiving interface and bounded output

New implementation detail aligned with ASTRA 32.5; 48.4–48.6; 63.6; 80.4

1. Deliver the bounded output to reference-material producer and authorised users.	UNSET
2. Reconcile identity, configuration, conditions, unresolved limitations, technical eligibility, remaining duties and readable evidence.	UNSET
3. Identify the actual performer and the organisation retaining acceptance responsibility.	UNSET

Verify: Check the sending manifest, actual recipient access, acknowledgement, restrictions and remaining action owners.

Acceptance: Transfer is complete only after the necessary receiving acceptance is authentic. Sending a file, reconciling quantity or generating a certificate does not establish technical eligibility.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

F03-L10-R12 — Independent release and continuing validity

New implementation detail aligned with ASTRA 15.1–15.5; 16.1–16.6; 62.4–62.7; 80.1–80.6

1. Evaluate F03-L10 independently within its declared object and outcome class.	UNSET
2. Reconcile the original R01–R06 controls with R07–R11, applicable source requirements, prospective parameters, findings and actual authority.	UNSET
3. Monitor the subject-specific changes stated in this profile and reopen affected conclusions when the evidence changes.	UNSET

Verify: Independently replay the final predicate and inspect scope, exclusions, competence, conflict clearance, findings closure and event history.

Acceptance: No positive grant, renewal or extension while any applicable mandatory child is FAIL, HOLD or UNSET. N/A requires independent scope justification; technical concessions remain separate from conformity.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T01–T38 Verification-domain completion cards

These are the same 38 Annex T planning domains, not new programme families and not ready-to-run hazardous test procedures. Each application completes the method, severity, duration, article, fixture, measurement, uncertainty, safety and acceptance basis prospectively. Qualification, acceptance, screening and research are separate purposes.

T01 – Mechanical material properties

T01 – Mechanical material properties

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

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|--|------------------------------------|
| 1. Resolve the following application parameters before the evaluation: Parent lot, product form, sampling location, specimen direction and condition, preparation, loading/control method, response variables, acceptance basis and uncertainty. | <input type="text" value="UNSET"/> |
| 2. Required technical evidence: Trace the specimen to its parent, preparation and conditioning; verify apparatus and raw response, valid failure mode, processing and population inference. | <input type="text" value="UNSET"/> |
| 3. Preserve the inference boundary: A favourable coupon from a different location or thermal history cannot qualify the delivered material. | <input type="text" value="UNSET"/> |
| 4. Retain invalid fractures and retest reasons. | <input type="text" value="UNSET"/> |

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T02 – Physical and chemical characterisation

T02 – Physical and chemical characterisation

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

- | | |
|--|------------------------------------|
| 1. Resolve the following application parameters before the evaluation: Measurand, matrix, preparation, blanks, reference basis, calibration range, interference, detection capability, recovery and uncertainty. | <input type="text" value="UNSET"/> |
| 2. Required technical evidence: Follow receipt through preparation, instrument sequence, controls, corrected result and report. | <input type="text" value="UNSET"/> |
| 3. Review reference suitability and contamination pathways. | <input type="text" value="UNSET"/> |
| 4. Preserve the inference boundary: A non-detect must retain the actual method limit; it is not proof of zero content. | <input type="text" value="UNSET"/> |
| 5. A reference for another matrix may not validate the analysis. | <input type="text" value="UNSET"/> |

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T03 – Dimensional and geometric metrology

T03 – Dimensional and geometric metrology

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

- | | |
|--|--|
| 1. Resolve the following application parameters before the evaluation: Datums, reference frames, feature definitions, temperature basis, fixture deformation, probe/software, alignment, correction, sampling and uncertainty. | <div style="border: 1px solid #ccc; padding: 2px 10px; display: inline-block;">UNSET</div> |
| 2. Required technical evidence: Reconstruct a feature result from the released drawing and actual measurement programme, instrument status, environmental data and unrounded acceptance decision. | <div style="border: 1px solid #ccc; padding: 2px 10px; display: inline-block;">UNSET</div> |
| 3. Preserve the inference boundary: A changed alignment or drawing version can invalidate apparently in-limit results. | <div style="border: 1px solid #ccc; padding: 2px 10px; display: inline-block;">UNSET</div> |
| 4. Calibration range alone does not establish fitness for a tight tolerance. | <div style="border: 1px solid #ccc; padding: 2px 10px; display: inline-block;">UNSET</div> |

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T04 – Non-destructive evaluation

T04 – Non-destructive evaluation

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

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|---|--|
| 1. Resolve the following application parameters before the evaluation: Technique, relevant defect mechanism, material, geometry, surface/access condition, reference artefacts, equipment, personnel, procedure and detection boundary. | <div style="border: 1px solid #ccc; padding: 2px 10px; display: inline-block;">UNSET</div> |
| 2. Required technical evidence: Witness setup, sensitivity checks, examination, interpretation and reporting for representative features, including a difficult or adverse case. | <div style="border: 1px solid #ccc; padding: 2px 10px; display: inline-block;">UNSET</div> |
| 3. Preserve the inference boundary: One easily detected artificial indication does not prove reliable detection of all service defects. | <div style="border: 1px solid #ccc; padding: 2px 10px; display: inline-block;">UNSET</div> |
| 4. Record inaccessible features and false-negative limitations. | <div style="border: 1px solid #ccc; padding: 2px 10px; display: inline-block;">UNSET</div> |

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T05 – Static structural strength and stiffness

T05 – Static structural strength and stiffness

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

- | | |
|---|-------|
| 1. Resolve the following application parameters before the evaluation: Load cases, boundary conditions, load introduction, fixture stiffness, structural configuration, strain/displacement response, instrumentation and acceptance rationale. | UNSET |
| 2. Required technical evidence: Connect the approved structural requirement to the representative article, load path, setup verification, original response and independent technical conclusion. | UNSET |
| 3. Preserve the inference boundary: An unrepresentative constraint can change the failure mode. | UNSET |
| 4. A fixture failure or altered load path requires validity review, not automatic article acceptance. | UNSET |

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T06 – Fatigue, durability and damage growth

T06 – Fatigue, durability and damage growth

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

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| 1. Resolve the following application parameters before the evaluation: Duty and exposure spectrum, sequence, representative defects, environment, inspection intervals, damage measures, model, confidence and life inference. | UNSET |
| 2. Required technical evidence: Preserve initial condition, accumulated cycles or exposure, inspections, interruptions, repairs and failure observations across the complete demonstration. | UNSET |
| 3. Preserve the inference boundary: Do not infer unlimited service life from a short run or count correlated repeats as independent trials. | UNSET |
| 4. Changes and unknown exposure remain visible. | UNSET |

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T07 – Fracture and joint integrity

T07 – Fracture and joint integrity

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

1. Resolve the following application parameters before the evaluation: Material condition, interface geometry, specimen orientation, defect representation, method validity, environmental effects and applicable acceptance criteria.

UNSET

2. Required technical evidence: Trace the tested joint or fracture specimen to material and process history; review raw behaviour, validity conditions and the exact allowed inference.

UNSET

3. Preserve the inference boundary: A strength value alone may not establish joint durability or fracture behaviour.

UNSET

4. Results outside method-validity conditions require a limited or invalid classification.

UNSET

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T08 – Modal and structural dynamic characterisation

T08 – Modal and structural dynamic characterisation

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

1. Resolve the following application parameters before the evaluation: As-tested mass/configuration, support conditions, excitation and response positions, sensor loading, acquisition, identification method and correlation objective.

UNSET

2. Required technical evidence: Connect original response data to identified dynamic properties and the model/configuration used for the intended engineering decision.

UNSET

3. Preserve the inference boundary: A good visual correlation can conceal incorrect modes or boundary conditions.

UNSET

4. Identify unobserved responses and uncertainty before model reliance.

UNSET

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T09 – Sine and random vibration

T09 – Sine and random vibration

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

1. Resolve the following application parameters before the evaluation: Mission-derived input, axes, spectral/time definition, fixtures, control channels, notching rationale, operating modes, response limits and cumulative exposure.	UNSET
2. Required technical evidence: Verify the actual setup, command/control/response history, interruptions, functional checks and relation to the deployed configuration.	UNSET
3. Preserve the inference boundary: Tailoring or notching requires prospective technical justification.	UNSET
4. A successful control-channel trace alone does not prove representative article exposure.	UNSET

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T10 – Mechanical and separation shock

T10 – Mechanical and separation shock

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

1. Resolve the following application parameters before the evaluation: Actual environmental basis, article and fixture transmission, measurement bandwidth, sampling, sensor positions, analysis method and authorised protection.	UNSET
2. Required technical evidence: Review safe specialist readiness, representative setup, original transient data, channel validity, functional checks and configuration-specific interpretation.	UNSET
3. Preserve the inference boundary: Missing bandwidth or saturated channels can make a recorded event invalid.	UNSET
4. No hazardous generation settings or universal shock level are prescribed.	UNSET

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T11 – Acoustic exposure

T11 – Acoustic exposure

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

1. Resolve the following application parameters before the evaluation: Spectral and temporal environment, article operating state, chamber/field conditions, sensor locations, spatial distribution and structural response limits.	UNSET
2. Required technical evidence: Link the required exposure to actual measured conditions, article configuration, validity checks, anomalies and post-exposure function.	UNSET
3. Preserve the inference boundary: An average acoustic level can conceal inappropriate spectral or spatial conditions.	UNSET
4. Assess combined structural effects and test-article representativeness.	UNSET

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T12 – Thermal-vacuum performance

T12 – Thermal-vacuum performance

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

1. Resolve the following application parameters before the evaluation: Pressure and temperature basis, heat paths, thermal interfaces, operating modes, sensor locations, stabilisation criteria and functional acceptance.	UNSET
2. Required technical evidence: Trace the mission requirement through fixture/thermal setup, original pressure and temperature history, operation and complete anomaly disposition.	UNSET
3. Preserve the inference boundary: A chamber set point is not the article condition.	UNSET
4. An interrupted cycle or altered heat path requires review of representativeness and accumulated exposure.	UNSET

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T13 – Thermal balance and model correlation

T13 – Thermal balance and model correlation

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

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| 1. Resolve the following application parameters before the evaluation: Energy inputs, boundary conditions, thermal interfaces, equilibrium definition, sensor uncertainty, model parameters and independent comparison criteria. | UNSET |
| 2. Required technical evidence: Preserve measured inputs/responses and distinguish calibration data from validation data; assess residuals, sensitivity and intended model use. | UNSET |
| 3. Preserve the inference boundary: Tuning until the same observations match does not independently validate the model. | UNSET |
| 4. Extrapolation to another environment must be expressly justified. | UNSET |

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T14 – High/low temperature and cycling

T14 – High/low temperature and cycling

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

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| 1. Resolve the following application parameters before the evaluation: Intended operating/storage duty, transition and dwell basis, article temperature, modes, functional measurements and cumulative history. | UNSET |
| 2. Required technical evidence: Connect technical requirements to actual article conditions and relevant checks before, during and after exposure, with original interruptions retained. | UNSET |
| 3. Preserve the inference boundary: A nominal chamber cycle or recovery pass does not demonstrate every function during extremes. | UNSET |
| 4. Separate storage and powered-operation conclusions. | UNSET |

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T15 – Thermal shock

T15 – Thermal shock

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

1. Resolve the following application parameters before the evaluation: Rapid-transition rationale, thermal gradients, article condition, exposure sequence, instrumentation, hidden-damage mechanisms and post-exposure methods.	UNSET
2. Required technical evidence: Review whether the controlled method represents the real transition and whether subsequent examinations can detect the relevant damage.	UNSET
3. Preserve the inference boundary: No universal transition severity is assumed.	UNSET
4. Passing an external inspection cannot exclude hidden damage outside the inspection capability.	UNSET

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T16 – Humidity and condensation

T16 – Humidity and condensation

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

1. Resolve the following application parameters before the evaluation: Moisture exposure, condensation mechanism, enclosure/installation, operating state, absorption/recovery, electrical/material measures and acceptance.	UNSET
2. Required technical evidence: Trace conditioning, original environmental readings, relevant function and recovery history to the specific article and material state.	UNSET
3. Preserve the inference boundary: A dry recovery measurement may conceal failure during condensation.	UNSET
4. Do not generalise from an unrepresentative sealed specimen to an installed system.	UNSET

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T17 – Altitude, pressure and decompression

T17 – Altitude, pressure and decompression

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

1. Resolve the following application parameters before the evaluation: Pressure history, rate/transition basis, enclosure configuration, operating mode, protective limits, instrumentation and specialist permissions.	UNSET
2. Required technical evidence: Evaluate approved specialist readiness, representative boundaries, original measurements and functional response to actual conditions.	UNSET
3. Preserve the inference boundary: Container pressure and internal component pressure may differ.	UNSET
4. Unmeasured critical response or unsafe test boundaries prevent a supportable conclusion.	UNSET

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T18 – Corrosion and salt exposure

T18 – Corrosion and salt exposure

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

1. Resolve the following application parameters before the evaluation: Substrate/coating, preparation, damage condition, relevant exposure mechanism, duration basis, inspection criteria and service-life inference.	UNSET
2. Required technical evidence: Preserve material and surface-process genealogy, exposure conditions, observed degradation and the approved interpretation of accelerated testing.	UNSET
3. Preserve the inference boundary: Hours of accelerated exposure are not automatically years of service.	UNSET
4. Appearance alone may not establish retained structural or electrical performance.	UNSET

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T19 – Fluid and chemical compatibility

T19 – Fluid and chemical compatibility

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

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| 1. Resolve the following application parameters before the evaluation: Actual substance identity, material state, contact and environmental conditions, property changes, contamination and functional acceptance. | <input type="text" value="UNSET"/> |
| 2. Required technical evidence: Connect authorised exposure and analytical methods to the representative material or assembly and its post-exposure properties. | <input type="text" value="UNSET"/> |
| 3. Preserve the inference boundary: A material trade name or nominal substance category does not cover changed formulations. | <input type="text" value="UNSET"/> |
| 4. Separate environmental provenance from technical compatibility. | <input type="text" value="UNSET"/> |

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T20 – Sand and dust

T20 – Sand and dust

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

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| 1. Resolve the following application parameters before the evaluation: Particle/environment basis, ingress and abrasion mechanisms, interfaces, seals, operating state, sensitive surfaces and cleanliness criteria. | <input type="text" value="UNSET"/> |
| 2. Required technical evidence: Trace exposure and functional checks to the installed configuration and the actual particle and environment specification. | <input type="text" value="UNSET"/> |
| 3. Preserve the inference boundary: Unrepresentative particles or sealed interfaces can invalidate inference. | <input type="text" value="UNSET"/> |
| 4. A clean external surface does not establish internal contamination control. | <input type="text" value="UNSET"/> |

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T21 – Water, rain and ingress

T21 – Water, rain and ingress

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

1. Resolve the following application parameters before the evaluation: Installation orientation, direction and nature of exposure, seals, drains, connections, operating state, detection method and acceptance boundary.	UNSET
2. Required technical evidence: Observe preconditioning/setup, original exposure, internal/functional checks and post-test condition using the approved method.	UNSET
3. Preserve the inference boundary: A pass in one orientation or connector state does not establish every installation.	UNSET
4. Record water detection limits and changes made before retest.	UNSET

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T22 – Icing, freezing and thawing

T22 – Icing, freezing and thawing

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

1. Resolve the following application parameters before the evaluation: Application-specific exposure, moisture/ice mechanism, transition history, operating state, relevant function and safe specialist limits.	UNSET
2. Required technical evidence: Review the environmental rationale, representative configuration, actual measurements and safe functional verification through the declared conditions.	UNSET
3. Preserve the inference boundary: Do not substitute a simple freeze cycle for another icing mechanism.	UNSET
4. The profile does not provide aircraft de-icing procedures or operational clearance.	UNSET

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T23 – Solar, ultraviolet and weathering

T23 – Solar, ultraviolet and weathering

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

1. Resolve the following application parameters before the evaluation: Spectrum and exposure, material condition, temperature/moisture interaction, degradation measures and acceleration assumptions.	UNSET
2. Required technical evidence: Link controlled exposure and property measurements to the claimed material/application and state the boundary of ageing inference.	UNSET
3. Preserve the inference boundary: A shortened accelerated programme cannot demonstrate a service duration without a supported mechanism and model.	UNSET
4. Retain relevant spectral differences.	UNSET

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T24 – Fire, flammability, heat, smoke and relevant toxic effects

T24 – Fire, flammability, heat, smoke and relevant toxic effects

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

1. Resolve the following application parameters before the evaluation: Application-specific material/assembly, mounting, conditioning, separate measured properties, method/acceptance basis, instrumentation and authorised safety controls.	UNSET
2. Required technical evidence: Review specialist permissions and method suitability; trace original observations for each required property to the actual specimen and configuration.	UNSET
3. Preserve the inference boundary: Flame behaviour, heat release, smoke and toxic-effect measures are not interchangeable.	UNSET
4. A passing small specimen does not automatically approve a complete installation.	UNSET

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T25 – Outgassing and contamination

T25 – Outgassing and contamination

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

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| 1. Resolve the following application parameters before the evaluation: Material/process history, particulate or molecular criterion, collection and measurement, sensitive surfaces, handling and preservation. | UNSET |
| 2. Required technical evidence: Trace sensitive-item history through sampling or exposure, blanks/reference checks, measured values and actual contamination acceptance. | UNSET |
| 3. Preserve the inference boundary: A generic clean label or one bulk-material result does not establish every assembly surface or subsequent handling condition. | UNSET |

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T26 – Accumulated radiation and displacement effects

T26 – Accumulated radiation and displacement effects

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

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| 1. Resolve the following application parameters before the evaluation: Mission exposure basis, device/material lot and configuration, relevant degradation, authorised specialist method, measurements and inference limits. | UNSET |
| 2. Required technical evidence: Review the specialist evidence and relation between tested conditions, observed degradation and the actual mission requirement. | UNSET |
| 3. Preserve the inference boundary: No universal dose, source-handling procedure or environmental equivalence is supplied. | UNSET |
| 4. Unknown lot/configuration and unsupported mission extrapolation remain holds. | UNSET |

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T27 – Single-event susceptibility

T27 – Single-event susceptibility

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

1. Resolve the following application parameters before the evaluation: Actual device/lot, operating state, relevant event definition, specialist exposure basis, detection system, event statistics and mission inference.	UNSET
2. Required technical evidence: Trace original observations, valid monitoring, configuration and statistical assumptions to the bounded specialist conclusion.	UNSET
3. Preserve the inference boundary: No observed event in inadequate exposure does not prove immunity.	UNSET
4. Distinguish detection failure, interrupted observation and zero valid events.	UNSET

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T28 – Charging and electrostatic effects

T28 – Charging and electrostatic effects

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

1. Resolve the following application parameters before the evaluation: Relevant charge paths, material state, bonding, interfaces, environment, protective behaviour and authorised test boundary.	UNSET
2. Required technical evidence: Verify configuration, instrumentation, actual stimulus/response and protection under the approved specialist method.	UNSET
3. Preserve the inference boundary: A handling-control check does not demonstrate all installed charging environments.	UNSET
4. No generic hazardous discharge settings are prescribed.	UNSET

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T29 – Electromagnetic emissions and immunity

T29 – Electromagnetic emissions and immunity

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

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| 1. Resolve the following application parameters before the evaluation: Conducted/radiated paths, ports, frequencies and modes from actual basis, installation, cables, instrumentation, uncertainty and functional criteria. | UNSET |
| 2. Required technical evidence: Trace representative setup and equipment state to original emissions/immunity data, monitored functions, anomalies and independent decision. | UNSET |
| 3. Preserve the inference boundary: A benign operating mode or changed cable arrangement can invalidate coverage. | UNSET |
| 4. A component result is not automatic installed-system compatibility. | UNSET |

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T30 – High-intensity radiated-field assurance

T30 – High-intensity radiated-field assurance

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

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| 1. Resolve the following application parameters before the evaluation: Mission/installation basis, coupling paths, shielding/bonding, representative system modes, method, instrumentation and specialist capability. | UNSET |
| 2. Required technical evidence: Review installed-system reasoning and specialist evidence, including how reduced or alternative testing bounds actual interfaces. | UNSET |
| 3. Preserve the inference boundary: An unrelated emissions test cannot establish this capability. | UNSET |
| 4. Tailoring and model reliance require prospective justified approval and visible residual gaps. | UNSET |

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T31 – Lightning-effects assurance

T31 – Lightning-effects assurance

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

1. Resolve the following application parameters before the evaluation: Relevant direct/indirect effects, installation and bonding, current technical basis, configuration, protective functions and safe specialist method.	UNSET
2. Required technical evidence: Trace declared effects to representative interfaces, original specialist results, functional response and installation-specific acceptance.	UNSET
3. Preserve the inference boundary: A protected component or coupon does not establish every aircraft path.	UNSET
4. No hazardous generation, field application or universal severity instructions are included.	UNSET

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T32 – Power quality and electrical transients

T32 – Power quality and electrical transients

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

1. Resolve the following application parameters before the evaluation: Supply architecture, interfaces, operating modes, disturbance basis, protective response, timing, acquisition and performance criteria.	UNSET
2. Required technical evidence: Review actual supply and target configuration, original waveform/data, relevant functions and interruption/recovery behaviour.	UNSET
3. Preserve the inference boundary: A nominal input rating or post-test power-on check cannot demonstrate behaviour during the required disturbances.	UNSET

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T33 — Insulation, bonding, grounding, harness and shielding

T33 — Insulation, bonding, grounding, harness and shielding

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

1. Resolve the following application parameters before the evaluation: Circuit and installation identity, terminations/routing, workmanship, electrical properties, tools, method limits and installed interfaces.	UNSET
2. Required technical evidence: Trace configuration and assembly records through relevant electrical checks, uncertainty, concealed-step evidence and final acceptance.	UNSET
3. Preserve the inference boundary: Continuity alone does not establish insulation, bonding or shielding performance.	UNSET
4. Preserve rework, routing differences and installation restrictions.	UNSET

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T34 — Leakage, pressure and containment

T34 — Leakage, pressure and containment

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

1. Resolve the following application parameters before the evaluation: Boundary/material/joint identity, approved technical basis, measurement range/sensitivity, conditions, protective limits and specialist authority.	UNSET
2. Required technical evidence: Verify readiness and instrumentation and trace the exact boundary through original test evidence, validity, repair and accepted disposition.	UNSET
3. Preserve the inference boundary: A test of one sealed subassembly does not establish the complete installed boundary.	UNSET
4. No universal pressure or hazardous procedure is supplied.	UNSET

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T35 – Energy storage protection and degradation

T35 – Energy storage protection and degradation

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

1. Resolve the following application parameters before the evaluation: Cell/module/system identity, history, duty, coupled hazards, protection, monitoring model, uncertainty and qualified limits.	UNSET
2. Required technical evidence: Link source and life evidence to controlled qualification, actual protective performance, degradation and separate reuse decisions.	UNSET
3. Preserve the inference boundary: Nominal capacity or one bench pass does not establish safety or another duty cycle.	UNSET
4. Protect original adverse data and unknown history.	UNSET

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T36 – Propulsion and integrated functional performance

T36 – Propulsion and integrated functional performance

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

1. Resolve the following application parameters before the evaluation: Approved duty/envelope, configuration, critical-part genealogy, measurement, interfaces, protective functions and qualification purpose.	UNSET
2. Required technical evidence: Trace the representative configuration through authorised specialist readiness, raw functional results, anomalies and exact acceptance.	UNSET
3. Preserve the inference boundary: A development performance point is not general operational qualification.	UNSET
4. No propulsion design settings or performance optimisation instructions are provided.	UNSET

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T37 – Software, AI, cyber and model validation

T37 – Software, AI, cyber and model validation

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

- | | |
|---|-------|
| 1. Resolve the following application parameters before the evaluation: Intended use, target/domain, source/build/model/data versions, test independence, error criteria, adverse cases, security scope and human authority. | UNSET |
| 2. Required technical evidence: Connect each relied-upon function to its source requirements, representative tests, original failures, independent review and accepted release. | UNSET |
| 3. Preserve the inference boundary: High average accuracy, tool execution or a signed build does not prove safe use. | UNSET |
| 4. Cyber tests require explicit authorisation; models retain purpose-specific limits. | UNSET |

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

T38 – Human, service and operational interfaces

T38 – Human, service and operational interfaces

ASTRA Annex T; 42; 62; 77; Annex AO P02/P03/P06/P07.

- | | |
|---|-------|
| 1. Resolve the following application parameters before the evaluation: Representative users/tasks, workload, conditions, information, handovers, dependencies, intervention ability, protected response and service measures. | UNSET |
| 2. Required technical evidence: Observe safe representative performance and adverse interfaces, preserving assistance, failures, actual response time and receiving acknowledgement. | UNSET |
| 3. Preserve the inference boundary: A demonstration by one expert or a nominal human override does not prove capability for all users. | UNSET |
| 4. Availability and correctness remain different measures. | UNSET |

Verify: Review the real article, calibrated channels, raw data, sequence and changed-condition evidence.

Acceptance: No required unknown or invalid input is treated as zero; apply the actual prospective predicate and preserve all adverse results.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

5 Triggered domain and parameter selection

AK01 – Terrestrial engineering and supply

ASTRA Annex AK; apply when relevant to actual family responsibility.

1. Actual site, source, configuration, delegated responsibilities and released technical data.

UNSET

Verify: Check domain, phase/mode, exact object and source-to-receiver responsibility.

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; apply when relevant to actual family responsibility.

1. Method, range, uncertainty, environment, site, signatory and provider relationship.

UNSET

Verify: Check domain, phase/mode, exact object and source-to-receiver responsibility.

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

AK04 – Launch and deployment interfaces

ASTRA Annex AK; apply when relevant to actual family responsibility.

1. Article pedigree, qualification envelope, interfaces and distinct readiness/permission decisions.

UNSET

Verify: Check domain, phase/mode, exact object and source-to-receiver responsibility.

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; apply when relevant to actual family responsibility.

1. Serial identity, use history, inspection detectability, qualified repair and current limits.

UNSET

Verify: Check domain, phase/mode, exact object and source-to-receiver responsibility.

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; apply when relevant to actual family responsibility.

1. Actual orbit and duration, drag/atmosphere, atomic oxygen where material, radiation and terminal duties.

UNSET

Verify: Check domain, phase/mode, exact object and source-to-receiver responsibility.

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; apply when relevant to actual family responsibility.

1. Actual geometry, radiation/charging, links, clocks, service bounds and disposal assumptions.

UNSET

Verify: Check domain, phase/mode, exact object and source-to-receiver responsibility.

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

AK09 — Cislunar and libration-region systems

ASTRA Annex AK; apply when relevant to actual family responsibility.

1. Reference frames, communication constraints, resources, users and external support.

UNSET

Verify: Check domain, phase/mode, exact object and source-to-receiver responsibility.

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

AK13 — On-orbit assembly and manufacture

ASTRA Annex AK; apply when relevant to actual family responsibility.

1. Inputs, essential variables, environment, sensor/model validity and product acceptance.

UNSET

Verify: Check domain, phase/mode, exact object and source-to-receiver responsibility.

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

AK16 — Lunar surface systems

ASTRA Annex AK; apply when relevant to actual family responsibility.

1. Dust, local terrain, illumination, temperature, gravity, radiation and communication assumptions.

UNSET

Verify: Check domain, phase/mode, exact object and source-to-receiver responsibility.

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; apply when relevant to actual family responsibility.

1. Environment/region, terrain, access, autonomy, supportability and contamination control.

UNSET

Verify: Check domain, phase/mode, exact object and source-to-receiver responsibility.

Acceptance: Terrestrial analogy is justified; unknown critical surface conditions remain restricted.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK18 – Atmospheric and buoyant exploration

ASTRA Annex AK; apply when relevant to actual family responsibility.

1. Atmosphere, pressure, chemistry, thermal conditions, flight/buoyancy functions and terminal state.

UNSET

Verify: Check domain, phase/mode, exact object and source-to-receiver responsibility.

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; apply when relevant to actual family responsibility.

1. Body uncertainty, surface interaction, contamination, autonomy and sample custody.

UNSET

Verify: Check domain, phase/mode, exact object and source-to-receiver responsibility.

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; apply when relevant to actual family responsibility.

1. Pressure/chemistry, thermal state, containment, access, communication and protection duties.

UNSET

Verify: Check domain, phase/mode, exact object and source-to-receiver responsibility.

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; apply when relevant to actual family responsibility.

1. Duration, communications, resources, remote autonomy, radiation and repairability.

UNSET

Verify: Check domain, phase/mode, exact object and source-to-receiver responsibility.

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; apply when relevant to actual family responsibility.

1. Time-varying flux, geometry, surface degradation, charged environment and instrument calibration.

UNSET

Verify: Check domain, phase/mode, exact object and source-to-receiver responsibility.

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; apply when relevant to actual family responsibility.

1. End-of-life power, thermal survival, data return, ageing and long-term support.

UNSET

Verify: Check domain, phase/mode, exact object and source-to-receiver responsibility.

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

AK25 – Human exploration and surface habitats

ASTRA Annex AK; apply when relevant to actual family responsibility.

1. Users, tasks, duration, life support, radiation/environment, health-support and safe-return assumptions.

UNSET

Verify: Check domain, phase/mode, exact object and source-to-receiver responsibility.

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; apply when relevant to actual family responsibility.

1. Destination, pathway, applicable protection duties, containment, custody and receiving readiness.

UNSET

Verify: Check domain, phase/mode, exact object and source-to-receiver responsibility.

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; apply when relevant to actual family responsibility.

1. Input variability, environmental qualification, quantity/quality, rights and disposition.

UNSET

Verify: Check domain, phase/mode, exact object and source-to-receiver responsibility.

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

AK29 – Specialised energy infrastructure

ASTRA Annex AK; apply when relevant to actual family responsibility.

1. Architecture, margins, protection, specialist permissions, heat rejection and terminal inventory.

UNSET

Verify: Check domain, phase/mode, exact object and source-to-receiver responsibility.

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; apply when relevant to actual family responsibility.

1. Deployed configuration, authority, source-to-user integrity, delay, uncertainty and recovery.

UNSET

Verify: Check domain, phase/mode, exact object and source-to-receiver responsibility.

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; apply when relevant to actual family responsibility.

1. Intended use, domain, source/build/model identity, data, validation, human authority and support.

UNSET

Verify: Check domain, phase/mode, exact object and source-to-receiver responsibility.

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; apply when relevant to actual family responsibility.

1. Terminal criteria, actual evidence, unknowns, remaining inventories, notifications and custody.

UNSET

Verify: Check domain, phase/mode, exact object and source-to-receiver responsibility.

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

P01 – Mission and scope

ASTRA Annex AO; P01

1. Legal owner, performer, family/module, object, domain, configuration, location, duration and modes.

UNSET

Verify: Review prospective derivation: 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; P02

1. Quantity, spatial/temporal boundary, distribution or bound, source/model, uncertainty and coupled effects.

UNSET

Verify: Review prospective derivation: 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; P03

1. Stable ID, owner, characteristic, units, bound inclusivity, predicate, observation and essential-step marker.

UNSET

Verify: Review prospective derivation: 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; P04

1. Frame origin/orientation, epoch, time scale, coordinate units, transformation and covariance.

UNSET

Verify: Review prospective derivation: 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; P05

1. Material type/condition, geometry, sources, variables, qualified window, machine/tool state and hidden properties.

UNSET

Verify: Review prospective derivation: 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; P06

1. Article pedigree, differences from delivered object, mounting, boundary conditions, operating state and exposure history.

UNSET

Verify: Review prospective derivation: 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; P07

1. Measurand, instrument/range, corrections, sensitivity, covariance, coverage, time/space sampling and calibration.

UNSET

Verify: Review prospective derivation: 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; P08

1. Loads, allowables, factors, life, geometry, material state, mechanisms, detectability and approved reserve.

UNSET

Verify: Review prospective derivation: 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; P09

1. End-of-life generation, peak load, usable storage, efficiency, outage/eclipses, mode durations and terminal reserve.

UNSET

Verify: Review prospective derivation: 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; P10

1. Node/location, mode, temperatures/gradients, heat inputs, sink/view factors, properties, uncertainty and transient cases.

UNSET

Verify: Review prospective derivation: 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; P11

1. Distance, frequency/wavelength, gain/loss, noise, rate, margin, latency, event time, age, clock error and outage.

UNSET

Verify: Review prospective derivation: 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; P12

1. User/task, representative conditions, essential steps, feasible intervention, health-support interface and emergency resources.

UNSET

Verify: Review prospective derivation: 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; P13

1. Relevant substances/particles, pathway, limit, method/detection, custody, cleanliness, containment and receiving.

UNSET

Verify: Review prospective derivation: 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; P14

1. Purpose/domain, source/build/weights/data, dependencies, target, errors, uncertainty, prohibited behaviour and change limits.

UNSET

Verify: Review prospective derivation: 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; P15

1. Identities, roles, privileges, keys/trust, target, validity window, command sequence, integrity and interruption response.

UNSET

Verify: Review prospective derivation: 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; P16

1. Population, exposure, failure definition, observation, dependencies, confidence model, downtime and maintenance exclusions.

UNSET

Verify: Review prospective derivation: 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; P17

1. Identity, amount, units, condition, losses, allocation, lifecycle boundary, factor provenance and exclusive attributes.

UNSET

Verify: Review prospective derivation: 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; P18

1. Closed findings, reviewer competence, independence, authority, status clocks, final-state criteria, custody and open obligations.

UNSET

Verify: Review prospective derivation: 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

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.

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