



ASTRA

AEROSPACE STANDARD

ASSESSMENT CHECKLIST

Carbon, Environment and Climate Assurance - Technical Assessment Checklist

AF-AST-CL-009

FIRST EDITION

30 September 2026 | English master text

Aviation / Space / Defense / Future systems

Publication identity and use

Control	Publication information
Code and title	AF-AST-CL-009 — Carbon, Environment and Climate Assurance - Technical Assessment Checklist
Edition and publication date	FIRST EDITION 30 September 2026 English master text
Accountable function	Family Technical Lead
Controlling technical basis	AF-AST-STD-001 / AF ASTRA-100:2026; supplied 248-page FIRST EDITION, Clauses 0–80 and Annexes A–AR.
Source fingerprint	fe0f775b3f57e43c7ad6b3d4ab17ac0ff872d3ce8c88fcd9ae9a0116b23209b1
Portfolio	108 retained document codes; F01–F08; 68 retained technical subjects. All-space and verification domains are applicability tags, not additional families.
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 Carbon, Environment and Climate Assurance. 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.

Contents

Publication identity and use	2
Purpose and application	2
Source requirements and added implementation detail	2
Contents	3
1 How to use the requirement and child-condition checklist	4
2 Evidence validity and decision sequence	4
3 Source conditions selected by family and retained responsibility	6
4 Retained subject controls and added R07–R12 extensions	24
F08-C01 — Inventory and data	24
F08-C02 — Reduction and transition	28
F08-C03 — Energy and circular resources	33
F08-C04 — Local environmental performance	37
F08-C05 — Climate resilience	42
F08-C06 — Low-carbon energy and supply claims	46
5 Triggered domain and parameter selection	51
Final independent closure and continuing duties	60
Appendix B — Local adoption, validation and receiving acceptance	61

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

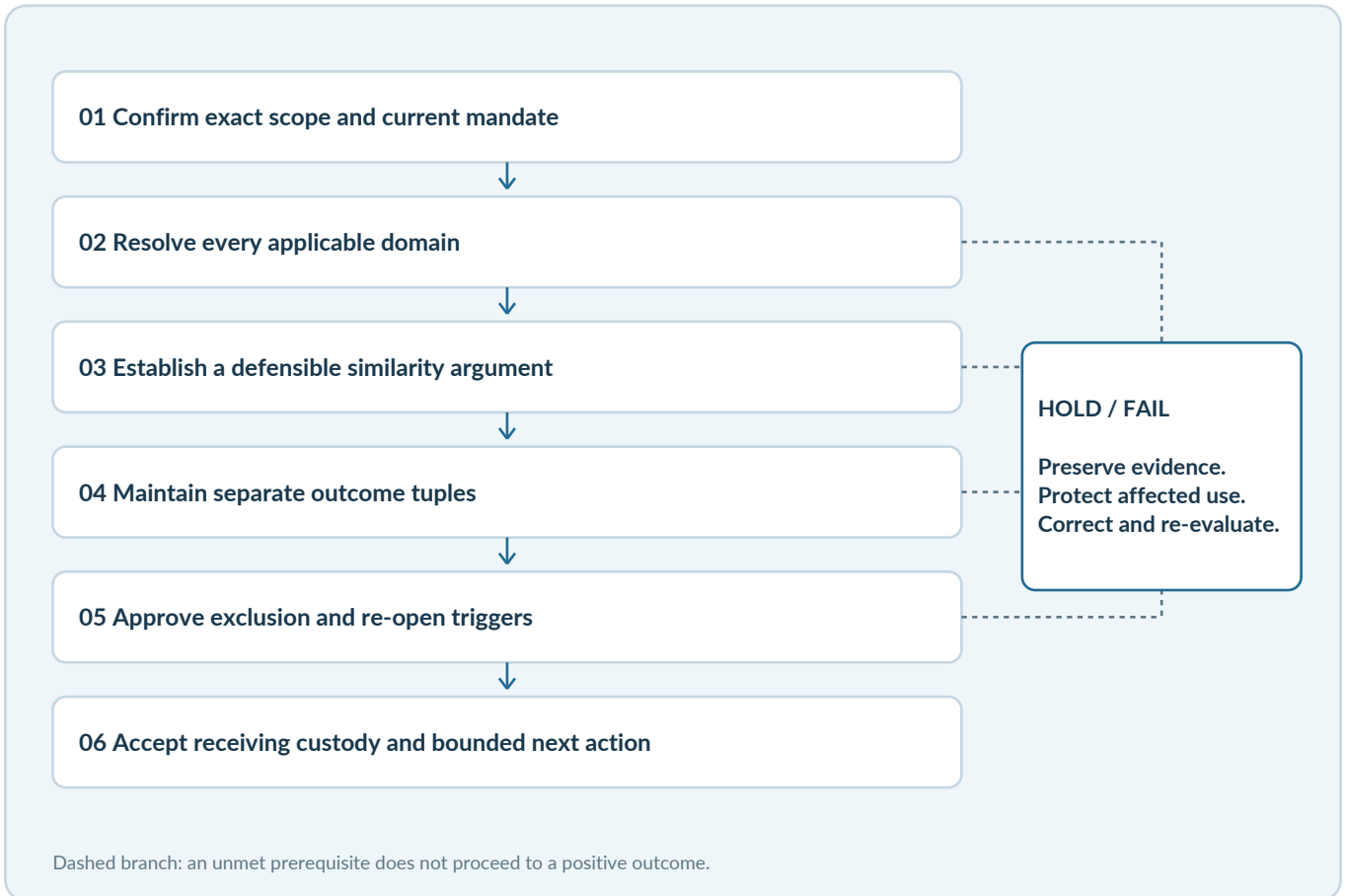
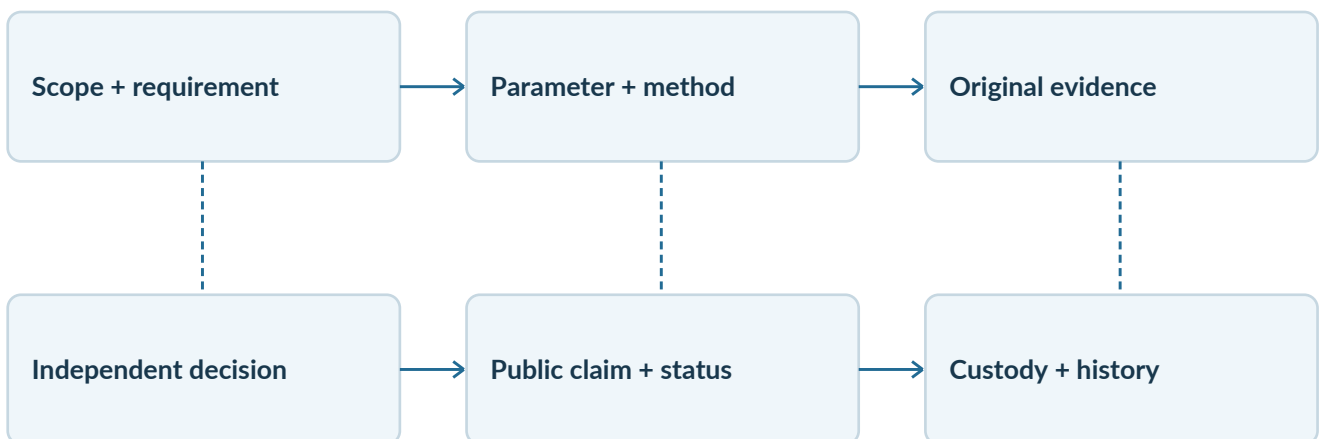


Figure — Implementation sequence for AF-AST-PR-004. Explanatory diagram; the source prerequisites and actual authority remain controlling.



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

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

Reviewer / actual event time

Finding / action / child-condition ledger

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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

10.2 – Confidentiality, personal data and controlled technology

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

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

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

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

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

10.6 – Recovery, retention and closure

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

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

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

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

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

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.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

24.1 – Engagement and statement boundary

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

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

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

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

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

24.2 – C01 – Inventory and data

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

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

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

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

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

24.3 – C02 – Reduction and transition

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

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

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

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

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

24.7 – C06 – Low-carbon energy and supply claims

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

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

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

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

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

24.8 – Materiality and assurance planning

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

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

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

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

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

24.9 – Verification execution and independent conclusion

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

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

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

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

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

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

Reviewer / actual event time

Finding / action / child-condition ledger

53.2 – Inventory and comparable reduction

Source: AF-AST-STD-001 / FIRST EDITION, p. 77; exact source subclause 53.2.

1. Quantification shall retain actual activity data, suitable factors, units, versions, source quality, corrections and relevant uncertainty.	UNSET
2. Comparisons shall use a coherent baseline and address structural, methodological and output-mix changes.	UNSET
3. Absolute and intensity changes shall be reported separately where material.	UNSET
4. Gross emissions, direct reductions, removals, compensation and avoided emissions shall not be merged into an unexplained net result.	UNSET
5. Numerical examples in this standard are synthetic and are not real-world factors.	UNSET

Verify: Inspect the original evidence, actual implementation, method and configuration for each mandatory child condition. Inventory model; data and factor provenance; baseline/recalculation; separated quantities; uncertainty and claim review.

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

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

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

62.7 – 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

Reviewer / actual event time

Finding / action / child-condition ledger

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

67.1 – Configuration and operational baseline

Source: AF-AST-STD-001 / FIRST EDITION, p. 98; exact source subclause 67.1.

- | | |
|---|------------------------------------|
| 1. The ground baseline shall identify deployed hardware, software, databases, operational procedures, configuration dictionaries, simulation models, keys, operators and external services. | <input type="text" value="UNSET"/> |
| 2. The controlled baseline shall be linked to each supported flight configuration. | <input type="text" value="UNSET"/> |
| 3. A simulator or training installation shall be segregated from live commanding. | <input type="text" value="UNSET"/> |

Verify: Reconcile installed versions and target mappings with approved release records.

Acceptance: Every live mission interface uses an accepted compatible baseline; training or stale configuration cannot be selected as a live authority.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

73.7 – Medical capability and health-data boundaries

Source: AF-AST-STD-001 / FIRST EDITION, p. 111; exact source subclause 73.7.

- | | |
|---|------------------------------------|
| 1. The mission shall identify the qualified health functions, equipment and support access required for its actual population and duration. | <input type="text" value="UNSET"/> |
| 2. Engineering assurance shall verify availability, integration, power, maintenance, communication and privacy without inventing treatment protocols or clinical certification. | <input type="text" value="UNSET"/> |
| 3. Health information shall be restricted to authorised purposes and handled separately from public conformity records. | <input type="text" value="UNSET"/> |

Verify: Check actual health-support arrangements, equipment integration and protected data access.

Acceptance: Required support functions are demonstrably available and usable within the mission limits; undocumented specialist capacity is not credited.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

74.4 – Sample identity and custody

Source: AF-AST-STD-001 / FIRST EDITION, p. 112; exact source subclause 74.4.

1. Each sample shall retain origin description, collection event, container, seal or interface identity, mass or quantity where known, conditions, contamination history, transfers, subdivisions and authorised access.	UNSET
2. Unknown provenance shall remain unknown.	UNSET
3. Splitting or pooling shall preserve parent-child links and shall not create duplicate inventories.	UNSET

Verify: Reconcile original collection, custody, receiving and subdivision records.

Acceptance: The sample and its history are unambiguous and usable for the claimed purpose; missing essential links block the dependent sample conclusion.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

75.4 – Yield, mass balance and circularity

Source: AF-AST-STD-001 / FIRST EDITION, p. 114; exact source subclause 75.4.

1. Material accounting shall separate input, good output, reject, sample consumption, process loss, recovered material, work in progress and unknown difference.	UNSET
2. Internal recirculation shall not be counted repeatedly as new resource production.	UNSET
3. Mass closure and yield are different measures; neither proves safety or material performance.	UNSET
4. Units and measurement uncertainty shall be explicit.	UNSET

Verify: Independently reconcile the material ledger and separately review quality acceptance.

Acceptance: Balances meet the approved uncertainty-based criterion and all claimed good output is technically accepted; unexplained losses or duplicate recovery remain open.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

76.6 – Degradation, environmental claims and retirement

Source: AF-AST-STD-001 / FIRST EDITION, p. 117; exact source subclause 76.6.

1. Capacity, conversion and loss models shall reflect ageing and relevant exposure.	UNSET
2. Environmental claims shall use a separately defined lifecycle boundary and shall not imply technical interchangeability or complete safety.	UNSET
3. Retirement shall preserve hazardous inventory, terminal protection, custody and monitoring duties.	UNSET

Verify: Reconcile actual condition, model validity, separate environmental statements and final disposition.

Acceptance: Technical life and terminal conditions are met independently of environmental metrics; unknown inventories remain open obligations.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

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

Finding / action / child-condition ledger

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

Finding / action / child-condition ledger

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

Finding / action / child-condition ledger

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

Finding / action / child-condition ledger

78.3 – Evaluation data and model credibility

Source: AF-AST-STD-001 / FIRST EDITION, p. 120; exact source subclause 78.3.

1. Evaluation shall retain data provenance, rights, labelling, representative populations, partitions, leakage checks, synthetic contribution and adverse cases.	UNSET
2. Model verification, calibration and independent validation shall be distinguished.	UNSET
3. A high aggregate score, large dataset or visual twin is not evidence of every rare or safety-critical condition.	UNSET

Verify: Inspect data partitions and independently reproduce selected performance and model-validation results.

Acceptance: Prospective scenario-specific criteria are met with disclosed uncertainty and limitations; unsupported extrapolation remains HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

78.7 – Recovery and semantic portability

Source: AF-AST-STD-001 / FIRST EDITION, p. 121; exact source subclause 78.7.

1. Export and recovery shall preserve identities, scope, configuration, evidence states, decisions, history, units, time basis, permissions and relationships.	UNSET
2. Equal file counts do not establish equal meaning.	UNSET
3. Reconcile events after the recovery point and obtain receiving acceptance before cutover.	UNSET
4. Service availability and evidence-integrity acceptance are separate.	UNSET

Verify: Execute missing-link, wrong-version, interrupted-write, expired-authority and restore tests.

Acceptance: All essential records and relationships are usable and correct; unresolved evidence loss keeps dependent decisions on HOLD.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

80.4 – Bounded claim and publication

Source: AF-AST-STD-001 / FIRST EDITION, p. 124; exact source subclause 80.4.

1. The outcome shall identify legal holder, issuer, object, configuration, family/module, domain, site or remote responsibility, criteria, limitations, actual dates and ongoing or instance basis.	UNSET
2. Public wording shall not imply unrestricted coverage of all space, universal safety, statutory permission or external recognition without evidence.	UNSET
3. The approved cover and edition label do not change those boundaries.	UNSET

Verify: Compare the actual decision with credential, registry and all proposed public representations.

Acceptance: Published scope and status exactly match the authorised decision and preserve every material restriction.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

4 Retained subject controls and added R07–R12 extensions

F08-C01 – Inventory and data

Organisational environmental capability and independently evaluated historical inventories for defined entities, sites, categories, periods and intended users. Separate inventory verification from capability recognition and verifier accreditation.

Claim boundary: A verified airport or supplier inventory is not the footprint of every flight, tenant or customer and does not establish a reduction without comparable historical evidence.

F08-C01-R01 – Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Agree the engagement, responsible statement, boundary, period, intended users and assurance form before substantive evaluation; identify excluded sites and value-chain categories explicitly.	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

F08-C01-R02 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Trace material activity quantities to actual meters, transactions or reviewed estimation models with consistent units, timestamps and source identity.

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

F08-C01-R03 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Review emission or conversion factors for geography, year, material/energy type, lifecycle boundary and version rather than copy a convenient unrelated value.

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

F08-C01-R04 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Reconcile aggregation, allocation, unit conversions, gross categories and shared sources, retaining original errors and corrections in a versioned inventory.

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

F08-C01-R05 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Evaluate data quality, uncertainty and missing categories separately; a numerical uncertainty allowance does not compensate for an omitted material lifecycle stage. 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

F08-C01-R06 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Use competent independent review to determine a bounded conclusion under the agreed materiality and assurance basis; do not equate verified inventory with achieved reduction or zero emissions. 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

F08-C01-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 inventory and data, define the qualified or evaluated envelope for inventory boundary, category data and factors. 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

F08-C01-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 correct total can conceal an omitted mandatory category or a factor from the wrong boundary. | 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

F08-C01-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 inventory boundary, category data and factors 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

F08-C01-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 material quantities, provenance, units, factor suitability and declared exclusions. | 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

F08-C01-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 inventory owner and independent statement reviewer.	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

F08-C01-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 F08-C01 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

F08-C02 – Reduction and transition

Historical reduction statements and prospective transition-plan validation for named boundaries and intended users. Keep measured achievement, forecast, removal, avoided emissions and compensation separately labelled and evaluated.

Claim boundary: Plan validation neither guarantees future reductions nor proves present reduction. A lower intensity can coexist with higher total emissions and must be reported accurately.

F08-C02-R01 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Determine whether the engagement concerns achieved historical change or the plausibility of a future plan; assign the corresponding verification or validation 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

F08-C02-R02 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Establish comparable baseline and current activity, methods, factors and boundaries, recording structural changes, output mix and all justified recalculations.

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

F08-C02-R03 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Separate absolute reductions from intensity changes and disclose operational reductions, removals, compensation and avoided-emission scenarios without misleading net aggregation.

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

F08-C02-R04 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. For prospective plans, challenge technical feasibility, milestones, finance, resource availability, external dependencies and uncertainty instead of assuming future delivery.

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

F08-C02-R05 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Evaluate implementation and monitoring records against actual commitments, preserve missed milestones and review material changes to the baseline or transition pathway.

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

F08-C02-R06 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Independently review corrected historical claims or prospective assumptions and limit wording to the evidence; validation must not be publicised as achieved net-zero 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

F08-C02-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 reduction and transition, define the qualified or evaluated envelope for historical reduction and prospective transition. | <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

F08-C02-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 favourable future scenario can be misrepresented as an achieved reduction. | <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

F08-C02-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 historical reduction and prospective transition 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

F08-C02-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 actual baseline/current data from forecasts, output-mix changes and attribution assumptions.

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

F08-C02-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 statement owner and independent historical/prospective reviewer.

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

F08-C02-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 F08-C02 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

F08-C03 – Energy and circular resources

Energy, water, waste, material efficiency, repair, reuse, remanufacture and recovery capability or statements for a defined system. Environmental performance and technical eligibility of recovered aerospace inputs remain distinct.

Claim boundary: A recovery percentage is not proof that a critical part is fit for service, that all waste was recycled or that internal recirculation represents new recovered material.

F08-C03-R01 – Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Define the material or energy flow boundary, reporting period, units, input/output categories and denominator before calculating a rate or improvement.	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

F08-C03-R02 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Reconcile purchases, transfers, consumption, recovered outputs, inventories and losses to original records without counting the same internal circulation repeatedly.

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

F08-C03-R03 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Distinguish repair, reuse, remanufacture, recycling and disposal; establish what was actually performed and what is only planned or sent to a contractor.

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

F08-C03-R04 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Preserve item identity, life and condition evidence and required qualification when recovered material or parts return to critical use; environmental benefit cannot waive technical eligibility.

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

F08-C03-R05 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Review measurement quality, contractor evidence, allocation and missing streams, including harmful displacement of effects to another boundary.

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

F08-C03-R06 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Independently evaluate the exact capability or quantitative statement and maintain accurate destination, custody and change records after transfer or provider closure.

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

F08-C03-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 energy and circular resources, define the qualified or evaluated envelope for energy/resource flows and circularity.

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

F08-C03-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: repeated internal recirculation can inflate recovered-output totals. | <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

F08-C03-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 energy/resource flows and circularity to actual configuration, controlled technical data, source/lot or record identity, equipment and software state, authorised performer and actual event time. | <input type="text" value="UNSET"/> |
| 2. Preserve failed runs, changed objects and prior evidence through any digital transfer. | <input type="text" value="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

F08-C03-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 unique material flows, denominators, losses and separate technical reuse eligibility. | <input type="text" value="UNSET"/> |
| 2. Define the expected outcome before execution, retain original failures and repeat the failed case after correction. | <input type="text" value="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

F08-C03-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 resource custodian and independent claim reviewer.	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

F08-C03-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 F08-C03 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

F08-C04 – Local environmental performance

Local air quality, noise, discharge, spills, biodiversity and other site-specific environmental performance within a declared responsibility. Use separate competent methods and actual obligations for each measured effect.

Claim boundary: An inventory or general sustainability label cannot establish compliance with every local environmental duty or guarantee absence of effects at unmeasured receptors.

F08-C04-R01 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Define the actual environmental question, relevant receptors, sites, source responsibility and applicable permissions before selecting data or claiming improvement.

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

F08-C04-R02 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Establish a representative baseline and sampling plan covering relevant seasonal, operating and location variation rather than selecting only favourable periods.

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

F08-C04-R03 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Demonstrate measurement and analytical competence, instrument suitability, detection limits, calibration and method uncertainty for the claimed 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

F08-C04-R04 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Evaluate source attribution, background influences, estimates and missing observations; distinguish absence of a detected effect from proof of absence below the method 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

F08-C04-R05 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Preserve operational controls and incident response regardless of favourable average metrics, and examine whether improvement in one area displaced harm elsewhere.

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

F08-C04-R06 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Independently review the exact site/period conclusion, permit boundaries, affected-party communications and changes requiring renewed sampling or assessment.

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

F08-C04-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 local environmental performance, define the qualified or evaluated envelope for local environmental performance and receptors. | <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

F08-C04-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 single quiet-period measurement can conceal peak or seasonal exposure. | <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

F08-C04-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 local environmental performance and receptors 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

F08-C04-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 relevant location, operating period, source attribution, methods and uncertainty.

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

F08-C04-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 local environmental owner and independent technical reviewer.

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

F08-C04-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 F08-C04 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

F08-C05 – Climate resilience

Capability and bounded assessments addressing physical climate risks for defined assets, services and dependencies over stated horizons. Scenario analysis supports adaptation decisions but is not proof of survival under all future conditions.

Claim boundary: Neither a scenario report nor capability recognition guarantees that a facility will withstand every climate event or replaces engineering design and statutory approval.

F08-C05-R01 – Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Identify relevant heat, flood, storm, wildfire, water-stress or other physical exposures and the asset/service life over which decisions will rely on the assessment.	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

F08-C05-R02 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

 1. Explain scenario selection, source version, resolution, uncertainty and limitations; do not present one scenario as a guaranteed forecast. 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

F08-C05-R03 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

 1. Map vulnerabilities and common dependencies across utilities, transport, suppliers, people, data and emergency services, including effects outside the immediate site. 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

F08-C05-R04 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

 1. Evaluate adaptation options against actual protective objectives, feasibility, resources, technical safety and the risk of transferring harm or dependence. 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

F08-C05-R05 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Verify implemented protective measures and exercise continuity through safe representative conditions, retaining shortcomings and actual response 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

F08-C05-R06 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Maintain review triggers for changed infrastructure, new evidence, failed controls and service dependency changes; report the assessment and capability limits accurately.

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

F08-C05-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 climate resilience, define the qualified or evaluated envelope for climate scenario, dependencies and adaptation.

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

F08-C05-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 scenario model can be mistaken for guaranteed resilience under every future condition. | 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

F08-C05-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 climate scenario, dependencies and adaptation 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

F08-C05-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 selected scenarios to vulnerabilities, resources, protective evidence and stated 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

F08-C05-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 asset resilience owner and independent adaptation reviewer.	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

F08-C05-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 F08-C05 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

F08-C06 – Low-carbon energy and supply claims

Provenance and allocation claims concerning fuels, energy or separated contractual environmental attributes. The profile identifies the claim mechanism and distinguishes physical delivery, book-and-claim style allocation and actual environmental outcomes.

Claim boundary: An attribute purchase does not necessarily mean physical delivery, verified operational reduction, fuel compatibility or zero emissions for an entire flight or service.

F08-C06-R01 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

 1. Define the exact claim and whether it follows physically delivered supply or a separated contractual attribute; state eligibility, boundary and intended beneficiary 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

F08-C06-R02 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

 1. Trace source, transfers, conversion and allocation to actual records and identify the responsible party at each custody or ownership change. 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

F08-C06-R03 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

 1. Reconcile eligible quantities and loss/conversion assumptions without exceeding available supply or allocating the same exclusive attribute to more than one claimant. 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

F08-C06-R04 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Verify cancellation, retirement or equivalent final allocation where the mechanism requires it, retaining identities, dates and evidence rather than accepting an invoice alone.

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

F08-C06-R05 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Distinguish attribute ownership and environmental accounting from technical compatibility of a fuel, energy source or aircraft service; use separate engineering evidence for interchangeability.

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

F08-C06-R06 — Retained subject control

Retained operating subject control; latest core 24; 62 and Annex AL.

1. Independently review the claim mechanism, limitations, later corrections and recipient communications.

UNSET

2. Public statements must not imply whole-service zero emissions from a bounded purchase.

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

F08-C06-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 low-carbon energy and supply claims, define the qualified or evaluated envelope for low-carbon energy and exclusive supply claims. | 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

F08-C06-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: one eligible quantity can be allocated to more than one exclusive claim. | 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

F08-C06-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 low-carbon energy and exclusive supply claims 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

F08-C06-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 ownership, transfers, eligibility, cancellation and physical-versus-contractual boundaries.

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

F08-C06-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 attribute ledger custodian and independent statement 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

F08-C06-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 F08-C06 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

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

AK03 – Launch sites and spaceports

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

1. Named site/operator, vehicle and payload classes, utilities, restrictions and receiving parties.	UNSET
---	-------

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

Acceptance: No site outcome is used as vehicle, launch or mission permission.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

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

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

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

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

AK28 — Space logistics and distributed supply

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

1. Actual items, life, environment, compatible interfaces and arrival/acceptance states.

UNSET

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

Acceptance: Only physically or otherwise validly confirmed accepted usable inventory supports mission budgets.

Evidence / method / parameter / sample references and limits

Reviewer / actual event time

Finding / action / child-condition ledger

AK29 — Specialised energy infrastructure

ASTRA Annex AK; 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

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

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

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

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.

Record authentic approval and activation in AF-AST-FR-001 and AF-AST-SC-004 or an equivalent controlled record. The edition label is not an effective date for a particular case. Preserve historical decisions under their actual controlling basis; a newer document does not retroactively create missing competence or evidence. Source: Clauses 4, 31, 61, 62 and 80; Annexes P and AR.

PDF recording limits: text fields may scroll beyond their visible area. A printed or flattened copy shall include controlled continuations whenever the full response is not visible. A typed name is not a certificate-based authenticated signature. An actual signed instrument or authenticated workflow shall establish approval. Record custody and privacy are implemented by the receiving organisation, not by this PDF alone.