

IAF / TECHNICAL ASSURANCE WORKBOOK

Automotive Health and Ergonomics Standard

Assessment checklist

SOURCE-REFERENCED / INTERACTIVE PDF

Working Draft 0.2
Technical review and pilot use; source adoption remains pending.

ORGANIZATION / CLIENT

ASSESSMENT REFERENCE

ASSESSMENT DATE / PERIOD

LEAD ASSESSOR / TEAM

SITE / LOCATION

ASSESSED OBJECT / SYSTEM / CONFIGURATION

ASSESSMENT PURPOSE AND CLAIMED SCOPE

315

check records

46

mapped sections

45

source pages

Scope, applicability & evidence rules

VEHICLE / COMPONENT / OPERATION PROFILE

VEHICLE MODEL, INSTALLATION AND SOFTWARE CONFIGURATION

INTENDED POPULATIONS AND USER COVERAGE

OCCUPANT POSITIONS, POSTURES AND USE CASES

CLIMATE, EXPOSURE AND OPERATING ENVELOPE

HEALTH-LIMIT / ACCEPTANCE-CRITERIA REGISTER REVISION

APPLICABILITY REGISTER / EXCLUSIONS / APPROVING REVIEWER

STANDARD-SPECIFIC ASSESSMENT RULE

Freeze the assessed population, configuration and operating envelope. Record the approved health-limit register and measurement uncertainty. Comfort or innovation cannot compensate for a failed critical gate.

HOW TO COMPLETE EACH CHECK

Pass	All applicable source conditions are met by identified evidence.
Fail	An applicable requirement or required protective gate is not met.
Not demonstrated	Evidence is absent, incomplete, invalid or inconclusive; this is not a pass.
Not applicable	The trigger is absent and the rationale and reviewer are recorded.

Source schedules, methods and record templates are assessed for correct application. For adverse conditions, verify prevention or effective closure. Do not treat illustrative values as mandatory limits. No result is preselected and no overall result is calculated.

Requirement map

Checklist identifiers are workbook record numbers. Source clause numbers, native requirement IDs and PDF page references are preserved separately. Several records may address one source clause.

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Requirement map - continued

Checklist identifiers are workbook record numbers. Source clause numbers, native requirement IDs and PDF page references are preserved separately. Several records may address one source clause.

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Source control & use of the workbook

CONTROLLED SOURCE

IAF_AHES_First_Edition_Corporate(3).pdf

Working Draft 0.2

Source length: 45 pages. Checklist revision: 1.0, dated 15 September 2026.

SOURCE SHA-256

91cfad6130a5a7a7ba8d462228f371d33fd5e62d431b9c9c0b1c157451962878

INTERPRETATION AND COVERAGE

This workbook reproduces source requirement text and source schedule entries as assessment criteria. Long clauses and schedules may have several separately numbered check records. A clause is not complete until every applicable record and required source condition has been dispositioned.

Read each record with its complete source clause, definitions, referenced methods, numerical rules and applicability conditions. The source document controls if an extraction, layout or interpretation issue is found. Record the discrepancy and resolve it before a positive conclusion.

Normative annexes in the source are included where applicable. Informative annexes are reading aids and do not independently create conformity obligations. Context-only main clauses and definitions without assessment duties are read with the requirements.

Assign responsibility for each applicable record in the controlled applicability register. Duties addressed to IAF or an assessment body must be reviewed against that role. They are not automatically duties of a manufacturer, operator or other applicant.

Record document/test IDs, revision, sample/configuration, measured result and limit where relevant. Explain every Fail, Not demonstrated and Not applicable result. Add a finding ID for any required action.

Text areas are sized for concise entries and limit input to reduce hidden content. Use the continuation sheet or an identified external evidence record for longer notes. Save a local copy, reopen it and check entered values before issuing the completed workbook.

Every Fail or unresolved critical gate requires the relevant scope to remain blocked. An observation is not a substitute for a failed requirement. A positive pilot conclusion is not certification, a product authorization or permission to use an IAF mark.

INFORMATIVE READING SUPPORT

Annex I, Annex J

Requirements & evidence

1 | Scope

CHECK 0001 | 1.2

Source p. 5

Applications

The document applies to passenger cars, light commercial vehicles, trucks, buses, coaches, accessible vehicles, shared vehicles, recreational vehicle cabins and automated road vehicles. It supports assessment of complete vehicles, defined components and fleet operations through the profiles in Annex A. Motorcycles, open vehicles and specialist vehicles may use relevant provisions only under an explicitly limited scope. Cabin criteria shall not be reported as assessed for an absent enclosure.

RESULT

Select result

FINDING / ACTION ID**EVIDENCE / OBSERVED RESULT / N/A RATIONALE**

CHECK 0002 | 1.3

Source p. 5

Lifecycle

Assessment shall address concept development, design, procurement, manufacture, software release, delivery, use, cleaning, maintenance, repair, refurbishment, resale and withdrawal. It shall include foreseeable misuse and degradation when these could alter an assessed outcome.

RESULT

Select result

FINDING / ACTION ID**EVIDENCE / OBSERVED RESULT / N/A RATIONALE**

CHECK 0003 | 1.4

Source p. 5

Interfaces and limits

This document covers health and ergonomic interfaces with restraints, crash protection, vehicle control and emergency response. It does not establish complete crashworthiness, vehicle type approval, medical device approval or occupational fitness to drive. Separate evidence shall establish these dependencies where relevant. No claim under this document shall imply prevention, diagnosis or treatment of disease, guaranteed alertness, absence of all allergens or safety for every possible user.

RESULT

Select result

FINDING / ACTION ID**EVIDENCE / OBSERVED RESULT / N/A RATIONALE**

Requirements & evidence

CHECK 0004 | 1.5

Source p. 5

Object of a claim

A claim shall identify a vehicle configuration, component installation envelope or defined operation. Assessment of one seat, filter or algorithm shall not constitute assessment of a complete vehicle. An organization's management arrangements alone shall not demonstrate product performance.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

2 | Interpretation and application

CHECK 0005 | 2.1

Source p. 5

Verbal forms

Shall denotes a requirement; should denotes a recommendation; may denotes permission; can denotes possibility. Notes and informative annexes do not establish requirements. Requirements in normative annexes have the same force as requirements in the body when their stated applicability conditions are met.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0006 | 2.2

Source p. 5

Document status

IAF AHES First Edition Working Draft 0.2 is a proposed technical text for review and pilot evaluation. Its requirements and draft numerical targets are not evidence of completed validation, formal adoption or an operating certification programme. A pilot may report results against this dated draft; it shall not describe the draft as an issued standard or imply authorization to use an IAF mark.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0007 | 2.3

Source p. 5

Applicability

The applicant shall complete Annex A before collecting acceptance evidence. A provision may be not applicable only where its triggering hazard, function or use is absent, with a recorded rationale and assessor acceptance. Cost, missing instrumentation, missing data and an unsuccessful test are not grounds for exclusion. A feature offered through an option, subscription or software activation remains within scope if included in the claimed configuration.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0008 | 2.4

Source p. 5-6

Requirements precedence

Applicable legal obligations shall be identified for every claimed market and operation. Where two requirements address the same quantity, population, averaging period and conditions, the more protective compatible requirement shall govern. Incompatible obligations shall be resolved through a documented market specific configuration; unrelated limits shall not be compared numerically. A voluntary assessment shall not authorize unlawful operation.

RESULT

Select result

FINDING / ACTION ID**EVIDENCE / OBSERVED RESULT / N/A RATIONALE**

CHECK 0009 | 2.5

Source p. 6

Controlled methods

The normative methods in this document are self contained at the procedural level. Each assessment shall also freeze an executable test specification containing the instruments, calibration, signals, algorithms, numerical limits and scripts needed to reproduce it. Missing acceptance values shall produce a not evaluable result, not discretionary acceptance.

RESULT

Select result

FINDING / ACTION ID**EVIDENCE / OBSERVED RESULT / N/A RATIONALE**

3 | Terms and measurement language

CHECK 0010 | 3.4

Source p. 6

Ergonomic accommodation

The ability of an intended user to enter, establish a supported and safe position, perform required tasks, perceive essential information and leave, under the declared conditions and available adjustments.

RESULT

Select result

FINDING / ACTION ID**EVIDENCE / OBSERVED RESULT / N/A RATIONALE**

CHECK 0011 | 3.5

Source p. 6

Comfort

A person's reported experience of the physical and perceptual environment under a specified scenario. Comfort measurements are contextual and shall not be substituted for exposure measurements.

RESULT

Select result

FINDING / ACTION ID**EVIDENCE / OBSERVED RESULT / N/A RATIONALE**

Requirements & evidence

CHECK 0012 | 3.6

Source p. 6

Fatigue risk

The possibility of impaired performance associated with sleepiness, prolonged task demand, inadequate recovery or other relevant factors. Sleepiness, visual distraction and cognitive distraction shall be treated as different constructs.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0013 | 3.11

Source p. 6

Performance target

A proposed or adopted measurable requirement for a specified function or comfort outcome. A performance target shall not be presented as a universal biological threshold.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0014 | 3.12

Source p. 7

Verified fallback

A demonstrated safe or risk reducing response to loss, degradation or uncertainty of a function. A fallback shall be evaluated under the relevant failure rather than inferred from normal performance.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

4 | Accountability and technical competence

CHECK 0015 | 4.1

Source p. 7

Responsible entity

The applicant shall name the entity responsible for the claim and a technical owner authorized to stop release when unresolved health or ergonomic risks remain. Responsibility shall extend across supplied subsystems and software services that affect the assessed outcomes.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0016 | 4.2

Source p. 7

Competence

Work shall involve competence appropriate to the hazards, including human factors, ergonomics, exposure science, vehicle engineering, measurement, software assurance and accessibility. Toxicological or clinical claims shall receive relevant specialist review. Competence shall be evidenced through qualifications, experience and the work reviewed, not a job title alone.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0017 | 4.3

Source p. 7

Independence

Test execution, technical review and the conformity decision shall have declared responsibilities. The decision reviewer shall be independent of the design work and shall disclose conflicts. Where a small organization combines tasks, an independent competent reviewer shall examine critical evidence and acceptance decisions.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0018 | 4.4

Source p. 7

User involvement

Intended users and representatives of materially affected groups shall participate in requirements development and usability review. Consultation shall produce traceable design decisions and unresolved issues. Participation shall not be represented as endorsement by all users in a group.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0019 | 4.5

Source p. 7

Resources and records

The organization shall maintain controlled procedures, calibrated equipment, competent laboratories and access to incident information. Records shall remain retrievable throughout the declared support life and for the justified claim retention period afterwards, subject to lawful minimization of personal data.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0020 | 4.6

Source p. 7

Escalation

Personnel and suppliers shall be able to report unsafe outcomes without pressure to change a result. The applicant shall document the owner, response deadline and interim protection for every critical issue. Commercial release dates shall not override a critical stop decision.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

5 | System boundary and intended use

CHECK 0021 | 5.1

Source p. 7

Configuration record

The applicant shall identify vehicle model and variant, build date, seating layout, trim and materials, glazing, tyres, suspension, HVAC, filters, sensors, electronic units, software and calibration versions, power system, accessories and market settings. Differences that can affect an outcome shall be assessed or justified through an equivalence analysis.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0022 | 5.2

Source p. 7

Scenario register

The register shall cover entry, adjustment, restraint use, startup, stationary waiting, urban and highway travel, rough roads where intended, charging or refuelling, congestion, automated operation, rest, cleaning and emergency exit. For each scenario it shall state occupants, tasks, durations, environmental conditions and foreseeable failures.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0023 | 5.3

Source p. 8

Duration and accumulation

Typical and reasonably foreseeable extended journeys shall be defined separately. Professional operations shall include shift patterns, repeated exposures, time outside the vehicle and recovery opportunities. A short laboratory session shall not establish suitability for a full shift or lifelong exposure.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0024 | 5.4

Source p. 8

Boundaries of automation

The applicant shall identify who performs the driving task and whether an occupant may disengage, recline, rotate, sleep, read or use immersive displays. Marketing names shall not define capability. Configuration changes between stationary and moving use shall have verified constraints.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0025 | 5.5

Source p. 8

Foreseeable combinations

Testing shall include combinations likely to worsen outcomes, such as maximum occupancy with recirculation, hot parking with new materials, charging with occupied climate control, a loaded filter with low battery, and reflective clothing or eyewear with occupant sensing. The selection process shall record omitted combinations and their justification.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0026 | 5.6

Source p. 8

Dependencies

Infrastructure, mobile applications, connectivity, cloud services and operator interventions needed for a claim shall be declared. Loss of an optional account or remote service shall not silently remove a safety related protection included in the assessed scope.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

6 | Inclusive user coverage

CHECK 0027 | 6.1

Source p. 8

Population definition

The applicant shall use current and relevant multivariate anthropometric data for claimed markets and user groups. The data record shall identify sampling, date, measurement definitions and limitations. Body mass, breadth, limb proportions, seated height, reach and joint mobility shall be considered alongside stature.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0028 | 6.2

Source p. 8

Accommodation design

Boundary cases shall represent combinations that challenge headroom, clearance, restraint fit, reach, visibility and exit. A small female and large male stature model alone shall not be accepted as proof of population coverage. Digital human models shall be checked against physical users or representative fixtures for critical interfaces.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0029 | 6.3

Source p. 8

Capability variation

Assessment shall address reduced strength, dexterity, vision, hearing, mobility and sensation; older users; pregnancy related fit needs; larger bodies; prostheses; and common clothing or personal equipment. The applicant shall identify which needs are accommodated directly, through an approved adaptation, or outside the scope.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0030 | 6.4

Source p. 8

Test recruitment

Human studies shall prespecify inclusion criteria, subgroup representation and sample size rationale. Convenience samples shall not support population wide conclusions. Annex D defines minimum pilot coverage; confirmatory claims shall additionally meet the required statistical confidence and precision.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0031 | 6.5

Source p. 8

Individual fit

Instructions shall enable users to establish and check fit without assuming specialist knowledge. When a safe fit cannot be achieved, the limitation and available alternative shall be clear before use. A configuration shall not be described as universally accessible solely because it offers powered adjustment.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0032 | 6.6

Source p. 8

Fair comparison

Overall averages shall be accompanied by subgroup results and adverse outcomes. Poor performance for a safety relevant subgroup shall not be concealed by a larger well performing group. Unsupported groups shall be explicitly excluded from a performance claim, with an analysis of foreseeable exposure to the product.

RESULT **FINDING / ACTION ID**

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

7 | Hazard analysis and acceptance criteria

CHECK 0033 | 7.1

Source p. 9

Hazard identification

The applicant shall maintain a hazard register covering posture, contact stress, repetitive movement, manual handling, fatigue, distraction, air contaminants, temperature, noise, vibration, motion sickness, lighting, biological contamination, electrical and optical exposure, data misuse and psychological burden.

RESULT **FINDING / ACTION ID**

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0034 | 7.2

Source p. 9

Risk estimation

Each hazard shall be evaluated for severity, exposure frequency and duration, likelihood of failure, ability to detect deterioration, vulnerable populations and recovery options. Numerical scoring shall not allow low estimated frequency to dismiss a credible catastrophic consequence without an explicit safety argument.

RESULT **FINDING / ACTION ID**

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0035 | 7.3

Source p. 9

Control hierarchy

The applicant shall first remove the hazard where feasible, then reduce it through design, then add monitoring and protective action, and finally provide instructions for residual risk. Warning messages alone shall not replace practicable engineering controls for foreseeable severe harm.

RESULT **FINDING / ACTION ID**

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0036 | 7.4

Source p. 9

Acceptance register

Before testing, every applicable outcome shall have a measurable acceptance criterion, its classification under Annex D, technical rationale, units, averaging period, operating conditions, uncertainty rule and responsible approver. Health limits shall receive independent specialist review. Commercial preference alone shall not establish such a limit.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0037 | 7.5

Source p. 9

Combined risk

The applicant shall evaluate interactions including noise masking an alert, cooling reducing ventilation, energy saving degrading air quality, privacy settings disabling detection, posture changes compromising restraints, and motion mitigation conflicting with collision avoidance. Safety shall take priority over comfort and energy optimization.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0038 | 7.6

Source p. 9

Residual risk and uncertainty

Unknown or weakly characterized exposure shall be addressed through additional evidence, conservative operational restrictions or removal of the claim. An absence of complaints shall not be treated as evidence that a hazard is absent.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

8 | Human centred development and requirements control

CHECK 0039 | 8.1

Source p. 9

Requirements traceability

User needs and hazard controls shall be translated into uniquely numbered requirements. Each requirement shall link to the affected scenario, population, subsystem, verification method and acceptance criterion. A traceability matrix shall include requirements from this document and additional controls identified by the applicant.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0040 | 8.2

Source p. 9

Iterative evaluation

Development shall include representative task analysis, early layout evaluation, physical or digital prototypes, user testing and production representative verification. Design changes made after a successful test shall trigger a documented impact assessment before the result is reused.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0041 | 8.3

Source p. 9

Tradeoffs

The design record shall explain tradeoffs among fit, visibility, restraint compatibility, packaging, efficiency, perceived comfort and accessibility. Cost or stylistic preferences shall not justify unresolved critical risk. A claimed benefit shall be assessed against a defined comparator under matched conditions.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0042 | 8.4

Source p. 9

Human study protection

Human testing shall use informed consent, voluntary withdrawal, data protection and a documented ethical review appropriate to the study. The test director shall define stop criteria, trained supervision and access to assistance. Participants shall not be deliberately exposed to hazardous pollutants, heat, impairment or unsafe vehicle control.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0043 | 8.5

Source p. 10

Safe simulation

Fatigue, incapacitation, trapped occupants and hazardous failures shall be represented using safe simulations, recorded data, surrogates or controlled fixtures. Human studies shall not require a child to remain in a hot or locked vehicle or a sleepy participant to drive on a public road.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0044 | 8.6

Source p. 10

Release review

The release package shall demonstrate that requirements are covered, adverse findings are resolved or bounded, instructions match the validated configuration, and remaining limitations are stated in the proposed claim. Uncompleted verification shall be visible as an open item.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

9 | Seating and posture

CHECK 0045 | 9.1

Source p. 10

Supported posture

Every claimed seating position shall provide support and adjustment, or a validated fixed geometry, appropriate to the intended occupants and duration. Assessment shall address pelvis, lumbar region, upper back, thighs, feet, arms and head position. The driver shall retain access to essential controls without persistent unsupported leaning or twisting.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0046 | 9.2

Source p. 10

Fit verification

The applicant shall measure joint angles, clearances, reachable controls and sight lines in each boundary case under Annex C01. A single prescribed posture shall not be assumed optimal for every person. Fit criteria shall consider movement variation and the ability to make safe minor adjustments.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0047 | 9.3

Source p. 10

Pressure and shear

Seat evaluation shall combine pressure distribution, contact area, asymmetry, reported discomfort and functional performance. Peak pressure alone shall not demonstrate protection from tissue injury. Any pressure relief or circulation claim shall identify the population, exposure duration and clinical or biomechanical evidence supporting it.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0048 | 9.4

Source p. 10

Restraint interface

Permitted adjustment ranges, cushions, massage modes and posture changes shall preserve verified restraint routing, head restraint geometry, occupant classification and access to buckles. Travel in an unverified reclined or rotated posture shall be prevented by design or an effective interlock where required by the risk analysis.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0049 | 9.5

Source p. 10

Adjustment safety

Powered movement shall address trapping, unexpected movement, memory recall for a different occupant and restoration after power interruption. A user shall be able to stop hazardous movement promptly. Automatic adjustment shall not move pedals or steering beyond the driver's safe control envelope during driving.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0050 | 9.6

Source p. 10

Long duration use

Testing shall include the declared prolonged use scenario, seat climate and the effect of aging. Instructions shall encourage safe opportunities to change position and take breaks. Massage, softness and adjustability counts shall not independently establish long duration suitability.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

10 | Reach controls and visibility

CHECK 0051 | 10.1

Source p. 10

Essential controls

Driving, restraint, emergency, demisting and immediate risk control functions shall be identifiable and operable from the safe seated position by the intended driver population. The applicant shall define essential functions through hazard analysis rather than convenience or interface branding.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0052 | 10.2

Source p. 10

Control geometry

Pedal travel and forces, steering adjustment, hand control location, switch force, grip clearance and reach shall be measured under representative clothing and footwear. Tests shall include full functional travel and emergency operation. Reach shall not require releasing necessary restraint support or creating harmful interference with adjacent controls.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0053 | 10.3

Source p. 11

Direct access

Essential functions shall have a stable and readily discoverable means of access. A single failure of a nonessential display, account service or voice interface shall not remove an essential action without a verified alternative. Identifiable tactile controls shall be provided where a visual menu would create unacceptable demand.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0054 | 10.4

Source p. 11

Visibility

The driver's adjusted eye positions shall permit relevant road and instrument views across the intended population. Reflections, screen placement, pillar interactions, sun visors, camera displays and low sun shall be assessed. Moving a user into a painful posture to obtain visibility shall not count as accommodation.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0055 | 10.5

Source p. 11

Error tolerance

Adjacent controls with significantly different consequences shall be distinguishable in use. Inadvertent activation, gloved use, tremor and low illumination shall be evaluated where relevant. Reversal or cancellation shall be available when it can prevent harm without defeating a required protection.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0056 | 10.6

Source p. 11

Verification

Annex C02 shall establish task completion, errors, assistance, time and visual demand. Measurements shall cover both first use with supplied instructions and familiarized use; training effects shall be reported separately.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

11 | Entry exit and accessible use

CHECK 0057 | 11.1

Source p. 11

Access path

Doors, steps, grab supports, sills, clearances and floor surfaces shall support the intended entry and exit tasks under dry, wet, dark and declared adverse conditions. The applicant shall assess loss of balance, excessive reach, head contact, sliding doors, powered lifts and unexpected height changes.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0058 | 11.2

Source p. 11

Mobility devices

Where carriage is claimed, the approved mobility device envelope, loading limit, turning space, securement access, occupant restraint interface and assistance assumptions shall be specified. A ramp's nominal width alone shall not demonstrate accessible use. Wheelchair securement and occupant restraint shall be treated as separate functions.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0059 | 11.3

Source p. 11

Independent operation

Claims of independent access shall be demonstrated by representative users completing the entire journey sequence, including booking where relevant, entry, positioning, restraint use, communication and exit. Assistance provided during a test shall invalidate an unqualified independent access result for that task.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0060 | 11.4

Source p. 11

Emergency escape

Normal and emergency release controls shall remain identifiable and reachable under the declared power loss scenarios. The design shall address child locks, anti theft locks, jammed powered systems and the needs of users unable to climb. Emergency assistance provisions shall not assume reliable mobile connectivity.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0061 | 11.5

Source p. 11

Caregiver handling

Access for assisting a child or passenger shall be assessed for lift distance, trunk posture, hand clearance and repeated handling. Powered assistance shall include pinch protection and an operable recovery method.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0062 | 11.6

Source p. 11

Information accessibility

Instructions and warnings shall use clear language and suitable alternatives for visual, auditory or dexterity limitations. Critical information shall not depend on colour alone. Accessible formats and the availability of support shall be identified in the user documentation.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

12 | Passengers and users with additional needs

CHECK 0063 | 12.1

Source p. 12

All positions

Rear, middle, third row and designated standing positions shall receive an assessment appropriate to their actual use. Front seat performance shall not be extrapolated to an unmeasured rear climate zone or different seat construction.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0064 | 12.2

Source p. 12

Children

Child travel provisions shall address compatibility with the declared restraint systems, installation and buckle access, caregiver visibility, ventilation near the breathing zone and misuse that could arise from comfort accessories. Unverified padding or positioners shall not be supplied as ergonomic improvements where they could alter restraint performance.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0065 | 12.3

Source p. 12

Occupant presence

The risk assessment shall address occupants remaining after parking, including children and people unable to self rescue. For a full vehicle assessment where such carriage is intended or reasonably foreseeable, a validated detection and warning or equivalently effective prevention strategy shall be required. Annex C10 governs evaluation without exposing vulnerable people to danger.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0066 | 12.4

Source p. 12

Older and disabled users

Assessment shall consider slower task completion, limited neck rotation, reduced strength, sensory differences and assistive technology. Time limited controls shall allow sufficient completion time unless delay creates a greater hazard. Adaptive arrangements shall be verified as installed.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0067 | 12.5

Source p. 12

Pregnancy and larger bodies

Fit guidance shall address safe restraint routing and adequate clearance without presenting a medical prescription. Claimed accommodation shall use relevant fixtures, models and ethically appropriate user evidence. Products shall not encourage defeating a restraint for comfort.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0068 | 12.6

Source p. 12

Additional occupants

Service animals, pets, attendants and carried equipment shall be considered where permitted because they can affect access, allergens, ventilation and securement. Their presence shall not reduce a human occupant's emergency route or required restraint function.

RESULT **FINDING / ACTION ID** **EVIDENCE / OBSERVED RESULT / N/A RATIONALE**

13 | Physical workload and occupational use

CHECK 0069 | 13.1

Source p. 12

Task inventory

Professional and repeated use assessments shall include driving, loading, delivery stops, passenger assistance, vehicle checks, coupling where relevant and tasks performed in or immediately around the cabin. Office style workstation criteria alone shall not establish fitness for mobile work.

RESULT **FINDING / ACTION ID** **EVIDENCE / OBSERVED RESULT / N/A RATIONALE****CHECK 0070 | 13.2**

Source p. 12

Physical demand

Required forces, repetition, durations, awkward reaches, sustained postures and available recovery shall be measured for the declared task pattern. Representative tools, uniforms and protective equipment shall be included. Manual handling limits shall be based on the actual task and population; a single universal lifting mass shall not be used.

RESULT **FINDING / ACTION ID** **EVIDENCE / OBSERVED RESULT / N/A RATIONALE****CHECK 0071 | 13.3**

Source p. 12

Repeated access

Delivery and service vehicles shall evaluate the cumulative burden of repeated entry, exit, restraint use and cargo access. The test specification shall state repetitions per shift, load distributions, step geometry and the effect of wet surfaces. Improvements shall not encourage unrestrained driving between stops.

RESULT **FINDING / ACTION ID** **EVIDENCE / OBSERVED RESULT / N/A RATIONALE**

Requirements & evidence

CHECK 0072 | 13.4

Source p. 12

Rest facilities

Where sleep or rest accommodation is claimed, ventilation, temperature, noise, berth access, restraint requirements during motion and emergency exit shall be assessed. A berth suitable while stationary shall not be claimed suitable for occupied travel without separate evidence.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0073 | 13.5

Source p. 12-13

Operator controls

Fleet procedures shall support seat adjustment, defect reporting, task rotation where feasible and recovery opportunities. Performance incentives shall not reward ignoring fatigue alerts or postponing essential maintenance. Operator workload shall include interactions with dispatch and remote support.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

14 | Fatigue and driver state support

CHECK 0074 | 14.1

Source p. 13

Prevention strategy

The applicant shall address fatigue through usable work arrangements, low burden controls, appropriate environment and opportunities to stop safely. A monitoring system shall be treated as an additional protective function. A detected absence of sleepiness shall not establish fitness to drive or justify extended work.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0075 | 14.2

Source p. 13

Construct definition

The system specification shall distinguish prolonged eyelid closure, gaze diversion, reduced engagement, unresponsiveness and any claimed cognitive state. Each output shall have an operational definition, ground truth method and known confounders. A facial expression alone shall not be treated as reliable proof of fatigue, emotion or illness.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0076 | 14.3

Source p. 13

Robustness

Testing shall cover intended users, skin appearance, facial characteristics, eyewear, headwear, lighting, vibration, posture and partial occlusion. The system shall identify when it cannot reliably observe the relevant signal and shall communicate degraded availability without presenting a normal status.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0077 | 14.4

Source p. 13

Performance

Annex C09 shall measure event detection, missed events, false alerts per operating hour, detection latency, availability and subgroup performance. Training and evaluation data shall be separated by participant and relevant recording session. Repeated frames from one event shall not be counted as independent successful detections.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0078 | 14.5

Source p. 13

Intervention

Alert urgency and modality shall match the hazard and enable an appropriate action. Escalation shall address persistence, lack of response and safe stopping without demanding complex interaction. Automated vehicle control following suspected incapacity requires a separate verified vehicle safety function; it shall not be improvised by a wellness algorithm.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0079 | 14.6

Source p. 13

User autonomy

Optional wellbeing reminders shall be adjustable without confusing their status with required safety functions. The system shall not shame, threaten or falsely reassure a user. Alert history used in employment decisions shall be subject to the protections in Clause 27.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

15 | Cognitive ergonomics and information

CHECK 0080 | 15.1

Source p. 13

Attention allocation

In motion interfaces shall minimize non driving visual, manual and cognitive demand. The task inventory shall distinguish essential immediate actions from deferrable tasks. Reading long text, entering extended text and configuring complex settings shall be restricted when incompatible with the active driving role.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0081 | 15.2

Source p. 13

Interaction stability

Frequently needed controls shall retain predictable location and meaning. Personalization and software updates shall not unexpectedly move essential controls during driving. The driver shall be able to interrupt a secondary task without losing vehicle control or being forced to finish it.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0082 | 15.3

Source p. 13

Alerts

The applicant shall define a coordinated alert hierarchy across suppliers and modalities. Simultaneous alerts shall be assessed for masking, contradiction and startle. A comfort notification shall not obscure a safety message; critical information shall survive failure of an optional audio or display feature.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0083 | 15.4

Source p. 13-14

Comprehension

Symbols, terminology, translations, units and mode indications shall be tested with intended users. The interface shall make clear whether automation is active, limited or unavailable and what the user must do. Comprehension shall be measured through correct actions or explanations, not preference alone.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0084 | 15.5

Source p. 14

Conversational systems

Voice and AI assistants shall acknowledge uncertainty, allow cancellation and avoid lengthy distracting exchanges during demanding driving. Vehicle actuation shall remain behind deterministic authorization and safety constraints. Inferred emotion or personal history shall not be used to manipulate a user into unsafe decisions.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0085 | 15.6

Source p. 14

Verification

Annex C02 shall be used for observed task performance and visual demand. Workload ratings shall supplement behavioural measures. A voice controlled task shall not be assumed distraction free because it requires no manual input.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

16 | Ventilation and cabin air control

CHECK 0086 | 16.1

Source p. 14

Air strategy

The ventilation design shall address outdoor pollution, occupant generated contaminants, cabin emissions, moisture and leaks from powertrain, exhaust, fuel or auxiliary systems. Fresh air and recirculation shall be coordinated using the declared occupancy and outdoor conditions.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0087 | 16.2

Source p. 14

Carbon dioxide

Carbon dioxide may be used as an occupancy related ventilation indicator with documented sensor accuracy and limitations. It shall not be presented as a complete air quality index, an oxygen measurement or a direct fatigue diagnosis. The operational trigger and response shall be defined under Annex D.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0088 | 16.3

Source p. 14

Air distribution

Testing shall measure front, rear and other distinct breathing zones at relevant occupant heights. A clean reading near an outlet shall not establish conditions at every seat. Dead zones, blocked vents, stroller or baggage obstruction and closed partitions shall be considered.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0089 | 16.4

Source p. 14

Control conflicts

When outdoor pollution and internal ventilation needs conflict, the control strategy shall manage both using verified limits and timely user information. Prolonged recirculation shall not be selected solely to improve an energy score. Manual settings shall not conceal a persistent critical exposure condition.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0090 | 16.5

Source p. 14

Filters and sealing

Installed performance shall include bypass leakage, loading, moisture, installation errors and the stated replacement point. A filter media result shall not be represented as vehicle level removal efficiency. Replacement instructions shall identify compatible parts and correct orientation.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0091 | 16.6

Source p. 14

Occupied waiting

Stationary, charging, low energy and engine off operation shall be assessed where occupancy is permitted. The system shall disclose the time or energy constraints on protective ventilation and provide a verified fallback before conditions become unacceptable.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

17 | Chemical emissions particles and odour

CHECK 0092 | 17.1

Source p. 14

Inventory

Cabin materials, adhesives, coatings, recycled content, cleaning products, fragrance devices and replaceable accessories shall have a hazard screened chemical inventory. Evaluation shall consider volatile and semi volatile substances, particles and dust bound contaminants where plausible, without assuming one aggregate measurement covers every hazard.

RESULT

Select result

FINDING / ACTION ID**EVIDENCE / OBSERVED RESULT / N/A RATIONALE**

CHECK 0093 | 17.2

Source p. 14-15

Measured agents

The analyte list shall be derived from materials and exposure pathways. At minimum, the assessment shall consider carbon monoxide, nitrogen dioxide, ozone, formaldehyde, relevant other carbonyls, benzene and other relevant VOCs, and size resolved particulate matter. Consideration may conclude no credible source, but shall be documented.

RESULT

Select result

FINDING / ACTION ID**EVIDENCE / OBSERVED RESULT / N/A RATIONALE**

CHECK 0094 | 17.3

Source p. 15

Limits

Compound specific acceptance limits shall identify exposure route, sensitive populations, averaging time and cumulative use assumptions. The applicant shall not convert an outdoor annual value into a short cabin pass criterion, or an occupational adult limit into a child protection claim, without a defensible derivation.

RESULT

Select result

FINDING / ACTION ID**EVIDENCE / OBSERVED RESULT / N/A RATIONALE**

CHECK 0095 | 17.4

Source p. 15

Emissions testing

Annex C04 shall evaluate a new production representative cabin, hot parking and ventilation recovery, plus relevant aged or cleaned states. Material screening may prioritize testing but shall not replace whole vehicle evidence for a full cabin claim. Background correction, blanks, analytical recovery and reporting limits shall be recorded.

RESULT

Select result

FINDING / ACTION ID**EVIDENCE / OBSERVED RESULT / N/A RATIONALE**

Requirements & evidence

CHECK 0096 | 17.5

Source p. 15

Active treatment

Intentional ozone generation shall not operate in an occupied cabin. Ionization, plasma, photocatalysis and similar systems shall be assessed for reaction products, particles and degradation under foreseeable conditions. An apparent reduction in one compound shall not offset an increase in another hazardous agent.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0097 | 17.6

Source p. 15

Odour and claims

Odour acceptability shall be evaluated separately from toxicity. Fragrance shall not be used to mask a contaminant failure. Terms such as toxin free, allergy free or pollution proof shall not be used without a precise and supportable scope; absence of detection means below the stated reporting limit only.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

18 | Hygiene allergens and biological control

CHECK 0098 | 18.1

Source p. 15

Contamination pathways

The design and maintenance plan shall address moisture retention, condensate drains, HVAC microbial growth, spills, shared touch surfaces, service animals and contaminated filters. Hygienic design shall support access, drying and cleaning without damaging safety systems.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0099 | 18.2

Source p. 15

Cleaning validation

The claimed cleaning process shall specify agents, concentration, contact time, application, drying, ventilation and material compatibility. Where microbial reduction is claimed, Annex C11 shall use suitable safe surrogates and defined sampling locations, recovery methods and detection limits.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0100 | 18.3

Source p. 15

Claim boundaries

A laboratory reduction on a coupon shall not establish reduced infection incidence in occupants. Antimicrobial material or filter claims shall state tested organisms or surrogates, conditions, age and performance duration. A cabin shall not be described as sterile based on routine cleaning or air filtration.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0101 | 18.4

Source p. 15

Disinfection devices

Ultraviolet, chemical or thermal disinfection shall include exposure containment, effective interlocks, access detection and post cycle clearance where applicable. A remote start command shall not bypass occupancy protections. Presence detection shall not be the only barrier when an undetected person could receive harmful exposure.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0102 | 18.5

Source p. 15

Allergens

The scope shall identify targeted allergens and pathways. Removal, surface residue and cleaning performance shall be assessed separately. Fragrance free options and clear material or treatment information shall be available where included in the intended user needs.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0103 | 18.6

Source p. 15

Shared operation

Operators shall define cleaning triggers for turnover, illness reports, spills, odour, visible contamination and water ingress. Records shall identify completion and defects without exposing unnecessary passenger health information.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

19 | Thermal comfort and thermal injury prevention

CHECK 0104 | 19.1

Source p. 16

Thermal envelope

The applicant shall define ambient temperature, humidity, solar load, altitude where relevant, clothing, occupancy and operating states for its thermal claims. Air temperature alone shall not establish comfort or safety in an asymmetrical cabin.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0105 | 19.2

Source p. 16

Measurements

Annex C05 shall include local air and radiant conditions, air speed, humidity, contact surface temperature and occupant reports where safe. Distinct zones shall cover head, torso and feet, with both sun exposed and shaded positions where relevant.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0106 | 19.3

Source p. 16

Recovery and stability

Heating and cooling performance shall include initial hot or cold conditions, time to the approved comfort band, overshoot and zone stability. Comfort shall be verified under maximum declared occupancy and relevant door opening patterns. Results shall identify the selected comfort mode and energy use.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0107 | 19.4

Source p. 16

Contact hazards

Heated and cooled seats, steering wheels, radiant panels, vents and sun exposed surfaces shall be assessed for contact duration, material properties and reduced sensation. A single surface temperature shall not be declared safe for all contact durations or users. Independent protection shall address stuck heaters and failed temperature sensors.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0108 | 19.5

Source p. 16

Critical conditions

Heat and cold risk controls shall operate before the approved exposure limits are exceeded, with a validated margin for sensor error and response delay. Parked occupant protection shall include power exhaustion, closed windows and loss of communication; it shall not imply that leaving a dependent occupant unattended is safe.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0109 | 19.6

Source p. 16

Efficiency interaction

Local conditioning and energy optimization may be used when they preserve ventilation, visibility, exposure limits and equitable comfort across claimed positions. A low power mode shall disclose reduced capability and its operating boundary.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

20 | Acoustic comfort and hearing protection

CHECK 0110 | 20.1

Source p. 16

Sources

Assessment shall include propulsion, tyres, aerodynamic noise, HVAC, pumps, seat actuators, charging, audio, active cancellation and alerts. Tonal, impulsive and low frequency characteristics shall be examined where an overall average could conceal annoyance or hazard.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0111 | 20.2

Source p. 16

Measurement

Annex C06 shall measure sound at representative ear positions under declared speed, road, load and climate conditions. Equivalent level, maxima, peaks where relevant and frequency content shall be retained. An acoustic weighting or time weighting shall be identified precisely in the executable specification.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0112 | 20.3

Source p. 16

Exposure

Professional and prolonged use claims shall include cumulative dose over the actual task pattern. The health acceptance register shall define the allowable exposure and calculation method. A quiet short trip shall not establish an acceptable work shift exposure.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0113 | 20.4

Source p. 16

Alert audibility

Required alerts and useful external cues shall remain perceivable with permitted audio, hearing differences and active noise control settings. Cancellation shall not suppress emergency warnings. Volume adaptation shall have bounded maximum output and an appropriate alternative for hearing limited users.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0114 | 20.5

Source p. 17

Subjective outcomes

Ratings shall distinguish loudness, tonal annoyance, rattles, speech intelligibility and overall comfort. Hearing protection and perceived luxury shall be reported separately. Comparisons shall use matched microphones, positions, speed, road and background conditions.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0115 | 20.6

Source p. 17

Failure control

A failed amplifier, feedback loop or active cancellation system shall not generate harmful sound. Fault injection shall verify output limiting and a user accessible means of stopping a nonessential sound source.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

21 | Vibration shocks and mechanical exposure

CHECK 0116 | 21.1

Source p. 17

Coverage

The assessment shall include continuous vibration, repeated shocks and transient events at the seat, floor, backrest and hand contact points as relevant. Different seating positions, suspension settings, tyres, loading and road classes shall be represented.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0117 | 21.2

Source p. 17

Signal definition

Annex C07 shall capture synchronized multi axis acceleration with declared bandwidth, anti aliasing, sampling rate, sensor orientation and mounting. Raw calibrated signals shall be retained. Frequency weightings and axis factors used for a health conclusion shall be explicitly implemented and justified in the approved method package.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0118 | 21.3

Source p. 17

Outcomes

The report shall distinguish unweighted engineering vibration, frequency weighted comfort or health metrics, peak shocks and cumulative exposure. A low RMS result shall not conceal severe shocks. Seat to floor transmission shall be reported by frequency where resonance could be important.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0119 | 21.4

Source p. 17

Exposure model

Professional use shall include actual task durations and repeated events. The applicant shall not use a smooth road average to represent mixed terrain or extend a short test to a full shift without a defensible exposure model and uncertainty analysis.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0120 | 21.5

Source p. 17

Controls

Suspension, seat tuning and route or speed guidance shall reduce harmful exposure within the intended use. A suspension comfort setting shall not compromise stability, braking or necessary road feedback. Bottoming out, actuator faults and aging shall be evaluated.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

22 | Motion sickness and ride experience

CHECK 0121 | 22.1

Source p. 17

Scenarios

The applicant shall address acceleration, deceleration, lateral motion, rotational motion, jerk, visual access, reverse facing positions and non driving activities where permitted. Electric regenerative braking transitions, stop and go operation and automated route planning shall be included where relevant.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0122 | 22.2

Source p. 17

Measurement

Annex C08 shall combine vehicle motion time histories with prespecified symptom ratings and task conditions. Reporting shall distinguish susceptibility, baseline symptoms, completion, withdrawal and recovery. Participants who stop early shall remain in the analysis as adverse outcomes.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0123 | 22.3

Source p. 17

Mitigation

Predictable motion planning, clear external views, anticipatory cues, appropriate display placement and user selectable ride preferences may be used. Claimed reductions shall be tested against a defined baseline with randomized or counterbalanced exposure order and suitable washout.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0124 | 22.4

Source p. 18

Safety priority

Motion comfort constraints shall yield to necessary collision avoidance and vehicle stability actions. The system shall not prolong an unsafe manoeuvre to maintain a comfort target. Any prediction of upcoming movement shall be timely and truthful enough to avoid misleading the occupant.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0125 | 22.5

Source p. 18

Display interaction

Reading, immersive content and virtual horizons shall be assessed in the actual moving environment or a validated simulator. A visual intervention shall not create unacceptable distraction, obstruct escape or conflict with an occupant's driving responsibility.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0126 | 22.6

Source p. 18

Claim limits

A reduced symptom score in a defined study shall not be presented as elimination of motion sickness or a therapeutic effect. Suitability for automated travel shall state the permitted seating orientations, tasks, route characteristics and tested duration.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

23 | Lighting visual comfort and sensory load

CHECK 0127 | 23.1

Source p. 18

Visual environment

The applicant shall evaluate direct glare, reflected glare, luminance transitions, display readability, flicker, headlight interactions and sun exposure across relevant eye positions. Daylight and night conditions shall be included.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0128 | 23.2

Source p. 18

Control

Brightness and ambient lighting shall adapt without hiding required information or forcing uncomfortable luminance changes. Users shall be able to reduce nonessential light. Settings shall remain usable for older users and people with common colour vision differences.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0129 | 23.3

Source p. 18

Displays and projections

Head up, augmented and spatial displays shall not obscure relevant hazards or provide misleading depth or motion cues. Focus demands, latency, alignment, reflections and degraded calibration shall be assessed within the declared operational envelope.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0130 | 23.4

Source p. 18

Optical exposure

Infrared sensing, lasers, ultraviolet sources and high intensity emitters shall have a wavelength, distance, duration and accessible emission assessment. Safety claims shall include foreseeable fault conditions and users who cannot withdraw from exposure. Invisible radiation shall not be assumed harmless.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0131 | 23.5

Source p. 18

Sensory sensitivity

Nonessential animation, sound, scent and haptics shall be reducible for users with sensory sensitivity. A low stimulus mode shall preserve essential warnings through suitable alternatives. A change in preference shall not silently disable critical detection.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0132 | 23.6

Source p. 18

Sleep related claims

Circadian, relaxation or sleep improvement claims shall have a defined population, exposure schedule and appropriate evidence. Decorative colour selection shall not be described as treatment or guaranteed restoration of alertness.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

24 | Electrical electromagnetic and physical hazards

CHECK 0133 | 24.1

Source p. 18

Exposure inventory

Wireless charging, seat motors, high current cables, radar, radio transmitters, heated surfaces and other cabin devices shall be screened for exposure and interference risks. The assessment shall cover representative charging power, device placement, duty cycle and fault conditions.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0134 | 24.2

Source p. 18

Contact and ingress

Accessible conductive parts, liquids, cleaning, condensation and damaged accessories shall be included in electrical risk evaluation. Comfort functions shall not introduce shock, fire or burn risks through foreseeable spills or wear.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0135 | 24.3

Source p. 19

Electromagnetic assessment

Frequency, field distribution, exposure duration, body location and uncertainty shall be recorded where evaluation is required. Acceptance shall use the reviewed limits for the intended population and conditions. Measurements at one frequency or one seat shall not support an unrestricted low exposure claim.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0136 | 24.4

Source p. 19

Assistive equipment

Where compatibility with implanted or carried medical equipment is claimed, the claimed equipment classes, distances and conditions shall be supported by relevant engineering evidence. Instructions shall identify limitations without assuming all devices respond alike.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0137 | 24.5

Source p. 19

Stored energy and containment

Inflatable comfort elements, active bolsters, movable partitions and pressurized systems shall address trapping, rupture and unexpected deployment. Nonessential equipment shall remain secured under foreseeable operation and shall not obstruct safety equipment.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0138 | 24.6

Source p. 19

Interface assurance

Complete vehicle electrical, fire and structural safety shall be established by appropriate separate evidence. This clause requires those interfaces to be controlled; it shall not be interpreted as a substitute for their full verification.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

25 | Adaptive seating and personalized comfort

CHECK 0139 | 25.1

Source p. 19

Bounded personalization

Adaptive seats, microclimate, active suspension and individual comfort profiles shall operate within verified limits. The permissible state space shall identify posture, restraint fit, actuation rate, temperature, force and driver control boundaries.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0140 | 25.2

Source p. 19

User control

The user shall be able to understand the active mode, stop nonessential adaptation and return to a safe default. Conflicting profiles, mistaken identity and guest use shall be tested. A purchased preference shall not override another occupant's safety needs.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0141 | 25.3

Source p. 19

Movement verification

Posture variation and pressure redistribution functions shall be evaluated during the relevant driving tasks and restraint states. Movement shall not introduce shear, trapping, distraction or a sudden change in reach. A stationary demonstration shall not establish safe use in motion.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0142 | 25.4

Source p. 19

Health claims

Massage, breathing guidance, thermal stimulation and relaxation functions shall be described according to demonstrated effects. Claims involving circulation, pain, recovery or physiological regulation shall require evidence appropriate to the specific claim and population.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0143 | 25.5

Source p. 19

Learning behaviour

Online adaptation shall remain inside an independently enforced safety envelope. Unvalidated learning shall not change acceptance limits or actuation permissions. The system shall record material changes and support rollback without restoring an unsafe prior state.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

26 | Occupant sensing and health related functions

CHECK 0144 | 26.1

Source p. 19

Intended purpose

Each sensing function shall define what is measured, what is inferred, the user action supported and the boundary between wellbeing information and medical purpose. Heart rate estimates, breathing estimates and stress indicators shall not be represented as diagnosis without the required supporting clinical and authorization evidence.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0145 | 26.2

Source p. 19

Measurement validity

Contactless and wearable signals shall be evaluated for motion artefact, clothing, body position, environmental changes and signal loss. Confidence and invalid measurements shall be handled explicitly. An unavailable value shall not be displayed as a normal physiological state.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0146 | 26.3

Source p. 20

Response safety

An abnormal estimate may prompt a proportionate check or assistance pathway when supported by the risk analysis. A single ambiguous signal shall not initiate hazardous vehicle actuation. Any automated safe stop function shall have independent vehicle control assurance and a verified interaction with surrounding traffic.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0147 | 26.4

Source p. 20

Assistance pathway

Where an emergency contact function is offered, the system shall communicate whether a call or data transfer succeeded, failed or remains pending. It shall provide a usable alternative where feasible. Automatic disclosure shall be limited to data necessary for the declared emergency purpose.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0148 | 26.5

Source p. 20

Clinical scope

Clinical performance claims shall specify endpoint, reference method, population, operating conditions, sensitivity, specificity and uncertainty. Evidence from healthy stationary volunteers shall not automatically extend to patients, moving vehicles or emergency detection.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0149 | 26.6

Source p. 20

No unnecessary dependency

Core cabin comfort and essential vehicle operation shall remain available without optional wearable pairing or wellness data sharing. Any exception required for an essential safety function shall be separately justified and clearly explained.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

27 | Privacy consent and responsible use of data

CHECK 0150 | 27.1

Source p. 20

Data map

The applicant shall map raw images, voice, gaze, occupancy, physiological signals, identifiers, inferred states, destinations and recipient systems. Each data item shall have a purpose, lawful processing basis, access rule, retention period and deletion route.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0151 | 27.2

Source p. 20

Minimization

Processing shall occur locally where reasonably achievable for the function. Raw cabin audio or video shall not be retained merely because storage is available. Aggregate engineering evidence shall be separated from identifiable occupant records.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0152 | 27.3

Source p. 20

Transparency and choice

Optional wellbeing processing shall offer informed and revocable choice without disabling unrelated essential functions. Required safety processing shall be explained distinctly. Children, shared users and passengers who do not own the vehicle shall receive appropriate protection and notice.

RESULT FINDING / ACTION ID EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0153 | 27.4

Source p. 20

Sensitive inferences

Health, emotional and behavioural inferences shall not be used for advertising, insurance pricing, employment discipline or unrelated profiling through hidden secondary use. Fleet decisions affecting an individual shall allow human review, explanation and challenge; uncertain sensor output shall not be treated as established misconduct.

RESULT FINDING / ACTION ID EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0154 | 27.5

Source p. 20

Access and deletion

Resale, rental turnover, account removal and factory reset shall remove user profiles and revoke access as specified. Safety records retained for a justified purpose shall be minimized and protected. Deletion claims shall be tested across the vehicle, paired application and remote systems.

RESULT FINDING / ACTION ID EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0155 | 27.6

Source p. 20

Security

Data shall be protected in transfer and storage, with authenticated access, least privilege, access logging and a response to compromise. A privacy setting shall not create an undisclosed safety degradation. Security incidents affecting occupant protection shall trigger the process in Clause 37.

RESULT FINDING / ACTION ID EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

28 | Software AI and connected operation

CHECK 0156 | 28.1

Source p. 20

Safety separation

AI driven comfort recommendations shall be separated from enforcement of hard safety limits. External content, sensor messages and conversational prompts shall not directly authorize steering, braking, seat movement or exposure generating equipment.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0157 | 28.2

Source p. 21

Model evidence

The applicant shall document dataset provenance, intended population, annotation rules, training separation, evaluation coverage, uncertainty and known failure modes. Synthetic data may extend coverage but shall not be the sole evidence for real occupant performance.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0158 | 28.3

Source p. 21

Change control

Software, model and calibration updates affecting an assessed requirement shall undergo impact analysis and proportionate regression testing before release. A changed control layout, sensor threshold, ventilation strategy or actuation envelope shall be treated as a potential material change.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0159 | 28.4

Source p. 21

Delivery and recovery

Updates shall be authenticated, integrity checked and recoverable. Incomplete installation, interrupted power and incompatible component versions shall lead to a verified safe state. A rollback shall preserve relevant security fixes or include an explicit risk controlled recovery plan.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0160 | 28.5

Source p. 21

Availability

Network loss, time synchronization failure, cloud outage and subscription expiry shall be tested for affected functions. The user shall receive a clear indication when a claimed function is unavailable. Offline safety requirements shall not be deferred to a remote service without a validated alternative.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0161 | 28.6

Source p. 21

Monitoring and drift

Field monitoring shall detect performance drift and unexpected subgroup failures using proportionate, privacy preserving evidence. Material drift shall trigger restrictions, corrective action and revalidation; quiet operation without incident reports shall not establish continuing model validity.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

29 | Automated and reconfigurable cabins

CHECK 0162 | 29.1

Source p. 21

Permitted modes

The applicant shall define permitted occupant activities and cabin configurations for each driving state. Reading, sleeping, facing rearward, rotating seats and working at a table shall be permitted only within the validated combination of vehicle control, restraint and occupant protection.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0163 | 29.2

Source p. 21

Transition management

A transition requiring a driver to resume control shall account for actual posture, reach, attention and time to become ready. A requested acknowledgement alone shall not prove readiness. If readiness cannot be established, the verified driving fallback shall manage the condition.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0164 | 29.3

Source p. 21

Movable interiors

Swivelling seats, folding controls, work surfaces and partitions shall have position sensing and appropriate interlocks. A stalled movement or disagreement between sensors shall not leave a user trapped or a safety critical geometry falsely reported as valid.

RESULT FINDING / ACTION ID EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0165 | 29.4

Source p. 21

Driverless operation

Vehicles without an onboard driver shall provide accessible assistance, intelligible trip status, a means to request stopping or help, and an emergency strategy consistent with vehicle safety. A remote attendant shall not be assumed continuously available unless availability is supported by evidence.

RESULT FINDING / ACTION ID EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0166 | 29.5

Source p. 21

Cabin activities

Work, entertainment, rest and social layouts shall be assessed for motion sickness, loose equipment, sensory load, privacy and exit access. Optional immersive use shall not hide an emergency signal or prevent timely evacuation.

RESULT FINDING / ACTION ID EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0167 | 29.6

Source p. 21

Claim boundaries

An ergonomic assessment of an automated cabin shall not constitute approval of its driving automation. Evidence shall identify supported routes or operational limits where these affect occupant outcomes.

RESULT FINDING / ACTION ID EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

30 | Fleet and shared mobility operations

CHECK 0168 | 30.1

Source p. 22

Operational profile

Fleet assessment shall identify vehicles, depots, routes, duty patterns, user groups, maintenance arrangements and contracted services. Product evidence shall be matched to the actual vehicles and operating envelope.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0169 | 30.2

Source p. 22

Daily readiness

Operators shall verify seat adjustment, visible defects, restraint accessibility, ventilation availability, filter or service alerts, emergency equipment and relevant software status. Defects affecting critical protection shall prevent dispatch until controlled.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0170 | 30.3

Source p. 22

Fatigue controls

Work scheduling shall account for time on task, rest opportunity, night work and additional duties. Monitoring data shall support protection and improvement. A driver shall have a practical means to report fatigue and stop safely without being encouraged to defeat the system.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0171 | 30.4

Source p. 22

Turnover

Shared vehicles shall reset personal settings and data as specified while preserving safe defaults. Cleaning, damage checks and verification of movable seats or accessories shall address variation introduced by different users.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0172 | 30.5

Source p. 22

Accessibility continuity

A vehicle advertised as accessible shall be available with the necessary working equipment, trained assistance where promised and accurate booking information. A failed lift or missing restraint shall not be hidden behind a general fleet accessibility claim.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0173 | 30.6

Source p. 22

Operational evidence

Annex C13 shall verify records against observation and sampled vehicles. A policy document without implementation evidence shall not demonstrate operational conformity.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

31 | Climate resilience and degraded operation

CHECK 0174 | 31.1

Source p. 22

Stress scenarios

Verification shall include the relevant combination of extreme heat or cold, smoke or dust ingress, flooding or water damage, blocked air paths, sensor faults, low battery, HVAC failure, network outage and occupied charging or stationary operation.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0175 | 31.2

Source p. 22

Fallback hierarchy

The system shall first preserve immediate occupant safety and vehicle control, then support exit or assistance, then maintain comfort as resources allow. Available energy and the time needed for protective action shall be included in the analysis.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0176 | 31.3

Source p. 22

Occupant information

Warnings shall identify the actual limitation and actionable response. A remaining runtime display shall include conservative assumptions and shall update when occupancy or conditions change. A countdown shall not imply a guaranteed safe period.

RESULT**FINDING / ACTION ID****EVIDENCE / OBSERVED RESULT / N/A RATIONALE****CHECK 0177 | 31.4**

Source p. 22

Contaminated vehicles

Flood, smoke, chemical spill and biological contamination shall trigger inspection before return to service. Cleaning appearance alone shall not establish acceptable air quality or electrical safety. Replacement and verification requirements shall be documented.

RESULT**FINDING / ACTION ID****EVIDENCE / OBSERVED RESULT / N/A RATIONALE****CHECK 0178 | 31.5**

Source p. 22

Emergency egress

Critical thermal or air failures shall have a response appropriate to users who cannot self rescue. The design shall address power independent exit, assistance and detection limits. Remote notification alone shall not constitute physical protection.

RESULT**FINDING / ACTION ID****EVIDENCE / OBSERVED RESULT / N/A RATIONALE****CHECK 0179 | 31.6**

Source p. 22

Recovery

After a critical failure, restoration shall verify the affected sensors, control logic and exposure conditions. Automatically clearing a fault message shall not establish that the vehicle is fit to resume the claimed operation.

RESULT**FINDING / ACTION ID****EVIDENCE / OBSERVED RESULT / N/A RATIONALE**

Requirements & evidence

32 | Supply chain and production assurance

CHECK 0180 | 32.1

Source p. 23

Supplier controls

Purchasing specifications shall identify health and ergonomic critical characteristics, prohibited substitutions, evidence requirements and change notification. Supplier claims shall state their test object and installation assumptions.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0181 | 32.2

Source p. 23

Materials and parts

Changes in foam, adhesive, fabric, recycled feedstock, coatings, filters, electronics or software shall be screened for effects on emissions, fit, durability, sensing and exposure. Chemically similar trade descriptions shall not establish equivalence.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0182 | 32.3

Source p. 23

Production consistency

The applicant shall control assembly features that affect outcomes, including seals, duct routing, sensor alignment, seat geometry and calibration. Sampling shall reflect process variation and the consequences of undetected defects.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0183 | 32.4

Source p. 23

Traceability

Production and service records shall permit identification of affected vehicles or lots when a defect is discovered. Health critical components shall retain identity through refurbishment and approved replacement.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0184 | 32.5

Source p. 23

Nonconforming supply

Suspect lots shall be contained, investigated and dispositioned by authorized personnel. Retesting a selected favourable item shall not cancel a demonstrated lot problem without an adequate investigation and revised sampling.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0185 | 32.6

Source p. 23

Sustainability interface

Recycled, bio based and lower mass materials shall meet the same applicable health and performance requirements. Environmental benefits shall not be used to waive unacceptable emissions, allergen risk or loss of durability.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

33 | Durability maintenance and refurbishment

CHECK 0186 | 33.1

Source p. 23

Service life

The applicant shall declare service life or replacement intervals for parts whose degradation affects the claim. Aging shall include use cycles, climate, ultraviolet exposure, sweat, cleaning agents, spills and storage as relevant.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0187 | 33.2

Source p. 23

Verification after aging

Annex C12 shall repeat critical measurements after representative aging, including seat support, adjustment, thermal control, filter performance, sensing and chemical emissions where degradation or treatment can change them.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0188 | 33.3

Source p. 23

Maintenance usability

Required service shall be achievable using the supplied instructions, tools and access arrangements. A maintenance interval shall be supported by expected contamination and duty, not mileage alone where hours, climate or occupancy govern degradation.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0189 | 33.4

Source p. 23

Repair and retrofit

A repair, aftermarket seat, cushion, filter, screen, fragrance device or software modification affecting an assessed interface shall receive an impact review. Original vehicle evidence shall not automatically extend to the modified configuration.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0190 | 33.5

Source p. 23

Resale and refurbishment

The process shall remove personal data, verify critical components, identify unresolved limitations and retest affected outcomes. A historical pass shall not imply current condition after wear, contamination or undocumented modification.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0191 | 33.6

Source p. 23

End of support

The applicant shall communicate the consequences of withdrawn software or parts support and provide a risk controlled transition. Discontinued optional services shall not silently remove a previously claimed essential protection.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

34 | Verification and evidence quality

CHECK 0192 | 34.1

Source p. 24

Plan

Before acceptance testing, the applicant and assessor shall approve the scope, test methods, sample selection, acceptance register and decision rules. The plan shall identify worst cases, repeatability checks, independent review and the treatment of deviations.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0193 | 34.2

Source p. 24

Test articles

Full vehicle pilot verification shall normally use at least three independently selected production representative vehicles covering relevant build variation. A smaller prototype set may support development findings only, with a clear limitation. A larger sample shall be used when variability or the claim requires it.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0194 | 34.3

Source p. 24

Measurement assurance

Equipment shall have traceable calibration appropriate to range and uncertainty. Environmental stability, synchronization, sensor disturbance, blanks and background shall be checked. The report shall include invalid runs and reasons for exclusion.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0195 | 34.4

Source p. 24

Statistical discipline

Outcomes, population strata, comparator, sample size and analysis shall be fixed before unblinded acceptance analysis. Confidence intervals shall reflect independent units and clustering. Missing data, withdrawals, multiplicity and outliers shall be handled by prespecified rules.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0196 | 34.5

Source p. 24

Simulation and equivalence

Models and simulation shall have documented validation against relevant physical evidence, limits and uncertainty. Extrapolation outside validated conditions shall be labelled exploratory. Equivalence shall explain all differences affecting the requirement and include confirmatory testing for uncertain effects.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0197 | 34.6

Source p. 24

Review

A competent reviewer shall verify traceability, method execution, uncertainty, exceptions and adverse results. Unexplained contradictions between sensors, user reports and field experience shall be resolved before acceptance of the affected claim.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

35 | Assessment decisions and conformity

CHECK 0198 | 35.1

Source p. 24

Evaluation unit

Decisions shall be made for each applicable requirement, scenario and required subgroup before being combined at profile level. Annex F defines the result schema. Assessors shall use pass, fail, not evaluable or not applicable with explicit evidence.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0199 | 35.2

Source p. 24

Critical gates

Any unresolved critical failure shall block a positive profile conclusion. An uncompleted critical test shall also block that conclusion. Scores for comfort, innovation or user preference shall not compensate for a failed critical gate.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0200 | 35.3

Source p. 24

Completeness

A positive conclusion requires every applicable requirement to pass, every exclusion to be justified, every required method and limit to be complete and no unresolved nonconformity within scope. Not evaluable is an incomplete result and shall not be counted as a pass.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0201 | 35.4

Source p. 24

Findings

Critical findings require containment; major findings include failed requirements or systemic evidence gaps; minor findings concern limited record or process defects without a demonstrated critical consequence. All findings affecting conformity shall be closed with evidence before a positive conclusion. Observations are opportunities beyond requirements.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0202 | 35.5

Source p. 24

Correction

Retesting shall address the cause, affected configurations and potential regression. A selected passing repeat shall not replace the original failure without a documented corrective action or valid invalidation of the original run.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0203 | 35.6

Source p. 25

Decision independence

The decision reviewer shall examine the complete dossier and disclose limitations. Appeals shall be considered by competent personnel who were not responsible for the original decision, while necessary protective actions remain in force.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

36 | Reporting claims and public information

CHECK 0204 | 36.1

Source p. 25

Technical report

The report shall identify the applicant, assessor, scope, configuration, dates, draft or edition, methods, limits, scenarios, participants or sample descriptors, results, uncertainty, deviations, exclusions, findings and decision. Raw evidence shall remain retrievable by its identifiers.

RESULT FINDING / ACTION ID EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0205 | 36.2

Source p. 25

Public summary

A public summary shall state what was assessed, important conditions, supported populations, material exclusions, evaluated software version and current status. It shall distinguish vehicle, component and operational scopes.

RESULT FINDING / ACTION ID EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0206 | 36.3

Source p. 25

Performance disclosure

Measured outcomes may be reported as a domain dashboard with methods and uncertainty. A single wellness score, letter grade or star rating shall not be issued under this document. Any future scoring scheme requires separate validation and adoption and shall preserve critical gates.

RESULT FINDING / ACTION ID EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0207 | 36.4

Source p. 25

Claims integrity

Promotional wording shall be consistent with demonstrated outcomes. Terms such as medically approved, universally healthy, zero fatigue, disease preventing or completely safe shall not be inferred from conformity. Optional equipment required for a result shall be visible next to the claim.

RESULT FINDING / ACTION ID EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0208 | 36.5

Source p. 25

Validity and changes

Continued relevance depends on configuration, service condition, support and material changes. This document imposes no arbitrary fixed certificate term. Surveillance and review intervals shall be justified by risk and any authorized programme, with earlier review after significant change or incident.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0209 | 36.6

Source p. 25

Verification access

Where a public verification record exists, it shall identify the responsible issuer, scope, version, date and status, including suspension or withdrawal. Personal health data and proprietary raw cabin recordings shall not be included in a public record.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

37 | Field monitoring and corrective action

CHECK 0210 | 37.1

Source p. 25

Feedback channels

The applicant shall provide accessible routes for reporting discomfort, exposure concerns, sensor failures, privacy problems and unsafe behaviour. Reports shall be triaged without requiring the user to establish a medical diagnosis.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0211 | 37.2

Source p. 25

Signal assessment

Monitoring shall examine complaint patterns, service findings, software drift, subgroup disparities and relevant exposure trends. Rates shall use a defined denominator where available. Absence of reports shall be interpreted in light of reporting access and underreporting.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0212 | 37.3

Source p. 25

Critical response

A credible serious incident shall trigger immediate risk review and proportionate containment, which may include user guidance, feature restriction, service action or suspension of a claim. Evidence shall be preserved without collecting unnecessary personal data.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0213 | 37.4

Source p. 26

Investigation

The process shall identify affected configurations, causal mechanisms, recurrence risk and corrective actions. Both technical and operational factors shall be considered. Responsibility shall not be assigned solely on the basis of an unvalidated occupant inference.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0214 | 37.5

Source p. 26

Effectiveness

Corrective action shall be verified by relevant testing and field followup. The closure record shall demonstrate that the original hazard was controlled without creating a new one. Public information shall be corrected when prior claims become unsupported.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0215 | 37.6

Source p. 26

Learning

Lessons shall feed into design, supplier controls, maintenance, methods and the next revision proposal. Material evidence that a numerical criterion is inadequate shall trigger review of the criterion rather than selective reinterpretation of the result.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

38 | Emerging technologies and continuous revision

CHECK 0216 | 38.1

Source p. 26

Technology neutral application

New technology shall be assessed by its functions, exposure pathways, failure modes and user outcomes even when not named in this document. Novelty shall not excuse missing evidence.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0217 | 38.2

Source p. 26

Anticipated developments

The applicant shall consider adaptive morphing seats, contactless physiological sensing, predictive microclimate, occupant digital models, immersive cabins, autonomous rest modes, automated hygiene, recycled smart materials and infrastructure informed air control when these enter the claimed system.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0218 | 38.3

Source p. 26

Evidence before expansion

New capabilities shall have an explicit intended purpose, validated operating envelope, protected data, bounded actuation, safe fallback and a defined method of measuring benefit. A forecast in Annex I is an informative research direction and shall not be marketed as a proven outcome.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0219 | 38.4

Source p. 26

Revision triggers

New hazard evidence, significant changes in user populations, climate exposure, automation, materials or field performance shall trigger a technical review. Revision proposals shall identify affected requirements, method changes, transition needs and treatment of existing claims.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0220 | 38.5

Source p. 26

Publication readiness

The first issued edition shall follow the evidence and governance work in Annex J. In particular, unresolved numeric health limits and unvalidated assessment methods shall not be hidden through broad performance language.

RESULT	Select result	FINDING / ACTION ID	
---------------	--	----------------------------	----------------------

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

Annex A | Assessment profiles and applicability

CHECK 0221 | A1 | part 1/5

Source p. 27

Profile selection

The applicant shall select one or more profiles below. Profiles may be combined but shall retain separate scope statements. Core governance, risk, evidence, decision and claim requirements apply to all profiles in proportion to their object. A component assessment shall evaluate relevant vehicle interfaces even when complete vehicle evidence is outside its scope.

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0222 | A1 | source schedule row | part 2/5

Source p. 27

V

Code: V

Assessment object: Complete vehicle and cabin

Required application: Clauses 1 to 12 and 14 to 29, 31 to 38; Clause 13 for work use; Clause 30 when an operational claim is included

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0223 | A1 | source schedule row | part 3/5

Source p. 27

C

Code: C

Assessment object: Component or subsystem

Required application: Clauses 1 to 8, applicable technical requirements in 9 to 29 and 31 to 33, and 34 to 38; installation assumptions and excluded vehicle outcomes stated

RESULT FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0224 | A1 | source schedule row | part 4/5

Source p. 27

O

Code: O

Assessment object: Fleet or shared operation

Required application: Clauses 1 to 8, 13, 14, 27, 30 to 38 and the applicable technical controls needed to verify vehicles in use

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0225 | A1 | source schedule row | part 5/5

Source p. 27

X

Code: X

Assessment object: Specialized or adapted application

Required application: A bounded extension of V, C or O with a hazard specific supplement; X alone is not a profile

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0226 | A2

Source p. 27

Application extensions

The applicability register shall identify every relevant extension: professional long duration use; child and caregiver use; accessible transport; automated and reconfigurable cabin; shared mobility; extreme climate; stationary rest; open or partially enclosed vehicle; retrofit or refurbishment. A missing cabin may justify excluding enclosed air tests; it does not justify excluding outdoor exposure risk or seat ergonomics.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0227 | A3

Source p. 27

Required register fields

Each requirement shall have an identifier, profile, trigger, applicability decision, reason, affected configuration, required method, evidence owner and assessor disposition. An exclusion shall identify the exact absent feature or scenario. A blanket exclusion of a clause containing several applicable hazards shall not be accepted.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0228 | A4

Source p. 27

Example scope wording

An acceptable bounded description is: Pilot evaluation against IAF AHES First Edition Working Draft 0.2 for the specified five seat vehicle variant, stated software and filter, defined climate range and declared occupant groups. Component wording shall identify the component and installation envelope and shall state that whole vehicle performance has not been evaluated. Examples illustrate structure only and are not evidence of an actual evaluation.

RESULT**FINDING / ACTION ID****EVIDENCE / OBSERVED RESULT / N/A RATIONALE**

Requirements & evidence

Annex B | Common test conditions and instrumentation

CHECK 0229 | B1

Source p. 28

Frozen test specification

Before testing, the executable specification shall assign a unique revision to every method and record test article selection, occupancy, environmental inputs, conditioning, instruments, sample rate, processing, acceptance criteria and stop rules. Optional feature states and operating modes shall be explicit. A changed setting after observing an unfavourable result shall start a new declared condition.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0230 | B2 | part 1/9

Source p. 28

Draft common conditions

The following values are proposed repeatability conditions for this working draft. They are not universal safe exposure values or a complete global climate envelope. More severe intended conditions shall be added. Human participation is permitted only after an appropriate safety review; empty vehicles, manikins and fixtures shall be used for hazardous conditions.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0231 | B2 | source schedule row | part 2/9

Source p. 28

Reference laboratory

Condition: Reference laboratory**Draft input:** 23 ± 2 °C; relative humidity 50 ± 10 percent**Required record:** Actual time history and measurement uncertaintyRESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0232 | B2 | source schedule row | part 3/9

Source p. 28

Hot condition

Condition: Hot condition**Draft input:** 40 ± 2 °C ambient; 800 ± 50 W per square metre simulated solar load**Required record:** Solar spectrum and geometry; at least 60 minutes exposure and stabilization evidenceRESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0233 | B2 | source schedule row | part 4/9

Source p. 28

Cold condition

Condition: Cold condition

Draft input: Minus 10 ± 2 °C ambient

Required record: At least 4 hours soak and measured stabilization of relevant masses

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0234 | B2 | source schedule row | part 5/9

Source p. 28

Extended climate

Condition: Extended climate

Draft input: Limits of declared market envelope

Required record: Severity rationale; added humidity, dust, altitude or icing where relevant

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0235 | B2 | source schedule row | part 6/9

Source p. 28

Cabin occupancy

Condition: Cabin occupancy

Draft input: Driver only and maximum declared occupancy

Required record: Heat, moisture and carbon dioxide generation for surrogates, with derivation

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0236 | B2 | source schedule row | part 7/9

Source p. 28

Road operation

Condition: Road operation

Draft input: Stationary and nominal 30, 60 and 100 km/h where within intended capability

Required record: Actual speed, surface, tyre state, load, wind and road gradient

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0237 | B2 | source schedule row | part 8/9

Source p. 28

Vehicle state

Condition: Vehicle state

Draft input: Production representative; options and firmware frozen

Required record: Build age, odometer, energy state, prior treatments and maintenance

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0238 | B2 | source schedule row | part 9/9

Source p. 28

Repetition

Condition: Repetition

Draft input: At least three valid repeated instrumented runs per critical condition

Required record: Order, reset, invalid runs and between run variation

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0239 | B3

Source p. 29

Stabilization and comparability

Thermal conditioning shall continue until the declared key sensors change by less than 1 °C over 10 minutes, unless a transient starting state is the purpose of the method. A maximum soak time shall be set and a failure to stabilize shall be reported. Air contaminant conditioning shall follow the declared chamber and vehicle procedure rather than using thermal stability as evidence of chemical equilibrium. Matched comparisons shall use the same route or rig input, occupancy, initial conditions and measurement chain. If weather or traffic prevents comparability, the affected comparison shall be repeated or treated as exploratory. Changes in test article age shall be accounted for when evaluating emissions.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0240 | B4

Source p. 29

Measurement quality

Instruments shall cover the expected range without saturation. The method shall state detection limit, resolution, response time, calibration interval, uncertainty and drift check. Signals used for causal timing shall share a verified timebase. Measurement uncertainty shall include sensor placement and relevant environmental or participant variability, not calibration uncertainty alone. Sensor placement shall be documented with dimensions or photographs. Breathing zone and ear measurements shall represent the actual occupied position without obstructing airflow or changing posture materially. All samples shall have custody records. Human identifiers shall be coded and stored separately.

RESULT	Select result	FINDING / ACTION ID	
EVIDENCE / OBSERVED RESULT / N/A RATIONALE			

Requirements & evidence

Annex C | Verification methods

CHECK 0241 | C01

Source p. 30

Accommodation seating and physical tasks

Objective and setup. Verify that the declared population can establish fit, perform tasks and exit. Use production representative geometry, specified restraints, adjustable equipment and relevant clothing. Select multivariate boundary cases and the human cohort in Annex D. Record dimensions, participant characteristics, initial settings and instruction exposure. Procedure. First evaluate entry and unassisted setup using supplied instructions. Then evaluate fit after permitted familiarization. Measure posture, head and limb clearance, restraint routing, control reach and operating forces. Perform predefined driving and passenger tasks in a safe rig or controlled setting. Collect seat pressure maps and body region discomfort at baseline and after 30, 60 and 120 minutes for a prolonged use claim; permit earlier withdrawal and record the reason. Longer duration claims require additional justified evidence. Outputs and decision. Report individual accommodation, task errors, assistance, angles, forces, pressure map processing and discomfort changes. A test participant counts as accommodated only if every critical fit and task criterion is met without unclaimed assistance. Apply D01 to D03 and the approved geometric criteria. A restraint conflict, blocked exit or unsafe reach is a critical finding irrespective of mean comfort.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0242 | C02

Source p. 30

Controls information and cognitive demand

Objective and setup. Evaluate each task offered during the declared driving state. Freeze software, task instructions and alert vocabulary. Use a driving simulator or controlled facility appropriate to risk with synchronized interface, eye tracking and vehicle or task performance data. Prespecify what constitutes a gaze away from the relevant road scene and how tracking loss is handled. Procedure. Include first use and familiarized trials, day and night, representative eyewear and relevant capability groups. Randomize task order and include a no secondary task comparator. Measure correct completion, errors, unintended activation, assistance, time, individual glance durations, cumulative visual demand and driving performance. Include display failure, voice recognition failure, alert overlap and task interruption. Eye tracking loss shall not be treated as eyes on road. Outputs and decision. Apply the frozen task specific time, error, visual demand and driving performance criteria. D04 sets pilot task success and critical error gates; it does not impose a universal safe glance duration. Publish glance distributions and confidence intervals. Any essential task requiring unsafe control release or producing a critical use error shall fail regardless of successful completion of other tasks.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0243 | C03

Source p. 30-31

Ventilation and installed filtration

Objective and setup. Evaluate ventilation at each distinct breathing zone and installed filtration under representative modes. Use synchronized indoor and outdoor contaminant instruments, airflow measurements and nonhuman occupant surrogates where appropriate. Define surrogate heat, moisture and carbon dioxide generation by intended occupant type and activity. Procedure. Test reference and critical climate, driver only and full occupancy, normal and maximum recirculation, new and service limit filters, and a defined outdoor pollution challenge. Use only safe controlled tracer or aerosol methods in an unoccupied vehicle. Record concentrations continuously through stabilization, control activation and recovery. Test bypass leakage, an obstructed inlet, sensor loss and low energy operation. Outputs and decision. Report concentration time histories, zone differences, time above each approved trigger or limit and verified protective response. For the indoor minus outdoor carbon dioxide criterion, apply the decision rule to the paired concentration difference, including the uncertainty of both measurements and their correlation where relevant. For filtration, report particle size, flow, challenge stability, installed reduction and uncertainty; a percentage is valid only where upstream concentration and detection limits support it. Apply D05 and D06 plus compound specific limits. A low carbon dioxide reading shall not substitute for missing pollutant data.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0244 | C04

Source p. 31

Cabin emissions and contaminant exposure

Objective and setup. Characterize chemical emissions and exposure in a controlled whole vehicle environment. Define vehicle age, production materials, transport, storage, prior ventilation and cleaning. Use an inert controlled chamber with documented background, leakage, airflow and blank measurements. Sampling locations shall cover representative breathing zones and suspected hot spots. Procedure. Measure the prespecified analytes at reference conditions, after the B2 hot condition in the unoccupied closed vehicle, and during the declared ventilation recovery sequence. Define exact sampling start, duration and flow for each phase. Include relevant aged and cleaned states. Collect analytical blanks and duplicates for at least one sample per batch and at least 10 percent of samples, whichever is greater. Record recoveries and calibrations. Outputs and decision. Report each compound with units, averaging period, method, reporting limit, uncertainty, background and both corrected and uncorrected results where correction is used. Do not report a nondetect as zero. Compare against the approved D07 exposure register using the guarded decision rule. If the reporting limit is too high to establish compliance, classify the result as not evaluable. Do not use total VOC to clear an individual compound failure.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0245 | C05

Source p. 31

Thermal environment and contact surfaces

Objective and setup. Evaluate comfort recovery, spatial variation and protection from thermal injury. Use B2 conditions and representative occupancy. Instrument local air, mean radiant or equivalent thermal conditions, humidity, air speed and relevant contact surfaces. A manikin or thermal model shall have documented calibration and validation for its purpose. Procedure. From the stabilized starting state, activate the declared comfort mode and log the first 30 minutes and the subsequent 30 minute stable period. Measure every distinct zone and relevant surface through overshoot and steady operation. Repeat at low energy, with foreseeable blocked airflow and a failed sensor or actuator using safe fixtures. Conduct human comfort ratings only after safe conditions are established; use the seven point thermal sensation scale defined in C14. Outputs and decision. Report time to the approved comfort band, percentage within band by zone, local discomfort, contact temperatures and energy used. Apply D08 and D09. Surface injury prevention uses material and duration specific limits from the reviewed register. A favourable whole cabin average shall not clear a dangerous local surface or an unserved occupied zone.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0246 | C06

Source p. 32

Noise and acoustic function

Objective and setup. Place calibrated microphones at representative left and right ear positions and distinct seats. Freeze speed, road, tyres, load, windows, HVAC and audio state. The executable specification shall define frequency weighting, time weighting, microphone calibration and bandwidth; retain a calibrated signal suitable for reprocessing where feasible. Procedure. Record at least 60 seconds of stable operation per condition and capture complete transient events separately. Evaluate reference driving, rough or noisy surfaces within scope, high HVAC, occupied charging and permitted audio. Repeat critical alerts under the worst masking conditions and with active cancellation enabled and disabled. Use safe rigs for hazardous output faults. Outputs and decision. Report equivalent sound level, maxima, relevant peak and spectral results, uncertainty, alert recognition and subjective annoyance separately. Build occupational exposure from actual task durations using Annex H, not an arithmetic average of decibels. Apply D10 and D11. Acceptance of hearing risk requires the approved exposure limits; a nominal luxury noise target shall not replace them.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0247 | C07

Source p. 32

Vibration and shocks

Objective and setup. Mount calibrated tri axial accelerometers at the floor and occupied seat interface, plus backrest or hand contact where relevant. Document orientation, mounting stiffness and seat loading. The specification shall define analysis bandwidth, sampling at a rate adequate for anti aliasing, sensor range and synchronized vehicle speed. Procedure. Use a reproducible road or rig schedule representing the declared use. Include different loads, seat settings and worn states, with at least 10 minutes of representative continuous data per road class unless a longer duration is required for stable estimates. Capture repeated shocks separately. Repeat at least three runs and record any sensor saturation or lost contact. Outputs and decision. Retain raw signals, spectra, RMS, peaks and transient distributions. If frequency weighted exposure is used, provide the exact filter transfer functions or coefficient files, axis factors, implementation checks and their technical rationale. Annex H defines general aggregation only. Apply D12 and the approved limits. A result with missing weighting definition or a saturated severe shock shall not establish health conformity.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0248 | C08

Source p. 32-33

Motion sickness and ride mitigation

Objective and setup. Evaluate a declared motion mitigation feature against a defined baseline under matched route, speed intent, seating orientation and passenger task. Use informed consenting adults and a study reviewed for safety. Record baseline susceptibility and symptoms; do not recruit vulnerable participants into hazardous exposure merely to fill a subgroup. Procedure. Randomize or counterbalance condition order, provide sufficient recovery between sessions and document washout. Record motion at the vehicle and occupant interface, visual task, head position, symptom scores at baseline and every five minutes, and recovery at 10 and 30 minutes after the session. A standard pilot exposure shall last 30 minutes unless stopped; a different claimed duration requires justification and additional evidence. Outputs and decision. Report individual and paired changes, peak symptoms, early withdrawals and adverse events. Prespecify one primary benefit endpoint, such as peak symptom score or symptom burden integrated over the planned session, and its direction of improvement. Where an exposure ends early, apply a conservative prespecified analysis for the remainder of the planned period; a shorter exposure shall not itself count as benefit. Additional endpoints shall be identified as secondary and analysed with an appropriate multiplicity strategy. Use the C14 symptom scale and the prespecified D13 benefit rule. Analyse withdrawals conservatively and assess order effects. Stop immediately for vomiting, presyncope, marked distress or a request to stop; no statistical objective overrides participant welfare.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0249 | C09

Source p. 33

Driver state and occupant sensing performance

Objective and setup. Freeze the software model, thresholds, sensing hardware and declared event definitions. Define positive events, normal observation time and an independently established reference label. Use safely recorded, simulated or supervised non driving states; real dangerous impairment on public roads is prohibited. Procedure. Test daylight, night, glare, vibration, relevant eyewear, headwear, posture, skin appearance and occlusion. Separate training and evaluation by person and recording session. Use at least two trained label reviewers for ambiguous state data, with adjudication recorded. Include invalid signals and hardware faults. Replay shall preserve relevant sensor physics; purely synthetic data shall be supplementary. Outputs and decision. Report event counts, sensitivity, specificity where meaningful, false alerts per hour, onset to alert latency, unobservable time, confidence intervals and each required subgroup. Prespecify an event matching window and refractory period so one event does not create multiple apparent successes. Apply D14 with cluster aware confidence intervals where observations share participants or sessions. Missing labels and excluded recordings shall be reported. An unobservable positive event within the claimed operating envelope shall remain in the sensitivity denominator and shall count as missed unless the prespecified protective outcome is demonstrably achieved. Normal operation availability shall include foreseeable observation challenges. Deliberate fault injection intervals shall be evaluated separately for fault detection and fallback and shall not be pooled into the normal operation availability percentage.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0250 | C10

Source p. 33

Remaining occupants and emergency assistance

Objective and setup. Verify the prevention strategy for occupants remaining after parking and the associated warning or assistance sequence. Use safe representative fixtures or validated occupant simulators with relevant geometry, movement and signals. Human demonstrations shall occur only in benign conditions with independent exit and supervision. Procedure. Include every permitted seat, restraint orientation, blanket or cover condition, reclined position and relevant mobility device. Test entry after an initial empty check, a quiet occupant, a sleeping representation, keys left inside, locked vehicle, open and closed windows, loss of network, low power and sensor obstruction. Repeat each required positive scenario at least three times. Include negative scenarios such as luggage, moving objects and empty child restraints. Outputs and decision. Measure detection, initial warning, escalation, successful delivery confirmation and local fallback. Apply D15 and the threat specific time budget in the hazard register; the shorter permitted time governs. A message queued for sending is not delivered assistance. A remote acknowledgement is not proof of physical rescue. Failure to warn in a required occupied case is critical.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0251 | C11

Source p. 34

Cleaning hygiene and disinfection

Objective and setup. Validate the stated cleaning or disinfection claim on representative materials, assembled surfaces and difficult to reach locations. Specify safe test organisms or surrogates, inoculation or soil loading, recovery efficiency and sample custody. Biological challenge work shall be conducted only by appropriately equipped competent facilities. Procedure. Execute the supplied process at the least favourable allowed concentration, contact time and environmental conditions. Include untreated controls and at least three independent replicates per material or location. Repeat after the claimed cleaning cycle life. For powered disinfection, inject foreseeable occupancy, access and interlock faults using safe surrogates; verify post cycle residuals before simulated reentry. Outputs and decision. Report log reduction only where baseline and detection limits permit it, along with residue, material damage and device safety. Apply D16 and the declared organism specific efficacy criterion. A result below detection shall establish a bounded reduction, not sterilization. An interlock failure allowing harmful exposure shall fail the critical gate regardless of microbial performance.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0252 | C12

Source p. 34

Aging repair and environmental faults

Objective and setup. Define an aging schedule tied to the declared service life, cleaning frequency, climate and duty. Accelerated aging shall have a rationale for the relevant failure mechanism and shall not be equated to years of service by an unsupported multiplier. Procedure. Evaluate representative production variation before and after seat loading, adjustment cycles, filter loading, thermal and humidity cycling, cleaning and other relevant stresses. Repeat the affected methods from this annex. Inject credible sensor stuck values, stale data, actuator faults, loss of power, network loss and component mismatch using a safe test setup. Outputs and decision. Report degradation, failure detection time, protective response, residual risk and restored function after repair. Apply D17 and all original applicable performance criteria at the declared service limit. If a requirement is met only with replacement before that point, revise the supported interval and instructions and verify the revised condition.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0253 | C13

Source p. 34

Operational audit and field sampling

Objective and setup. Verify that an operator implements the claimed procedures. Define sites, shifts, routes, vehicle variants and subcontracted activities. Use a risk stratified sample, with at least five vehicles or all vehicles if the fleet is smaller, and at least three operating shifts where the operation includes them. This is a pilot minimum and does not establish a universal statistical sampling plan. Procedure. Compare records with observation of dispatch, adjustment, cleaning, defect handling, accessible assistance, fatigue reporting and data reset. Select vehicles independently of operator preference. Include at least one adverse operating condition or a safe exercise of its response. Expand the sample when a systemic defect or unexplained inconsistency is found. Outputs and decision. Record denominators, actual observations, discrepancies and corrective action. Apply

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0254 | D18

Source p. 34

Verification methods

A documented procedure that is not followed shall fail the affected requirement. A critical defect in one vehicle shall trigger containment and assessment of the potentially affected fleet before any fleet conclusion.

RESULT	Select result	FINDING / ACTION ID	
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EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0255 | C14

Source p. 35

Human response scales and study records

Discomfort scale. Use an integer scale from 0 to 10, anchored at 0 no discomfort, 3 mild discomfort, 5 moderate discomfort, 7 severe discomfort and 10 intolerable discomfort. Record overall and body region ratings. The unlabelled intermediate integers remain available. Pain, numbness and loss of function shall also be recorded explicitly rather than hidden within an overall score. Thermal scale. Use minus 3 cold, minus 2 cool, minus 1 slightly cool, 0 neutral, plus 1 slightly warm, plus 2 warm and plus 3 hot. Separately ask whether the condition is acceptable and record local draft, contact and humidity complaints. The scale is a report instrument, not a medical exposure classification. Motion symptom scale. Use integers from 0 no symptoms, 1 awareness without discomfort, 2 slight discomfort, 3 mild symptoms, 4 moderate symptoms, 5 pronounced symptoms, 6 strong symptoms requiring a pause, 7 severe symptoms, 8 very severe symptoms, 9 near vomiting and 10 vomiting. Record symptom type separately. At a score of 6, or earlier at participant request or investigator concern, stop the exposure. Vomiting, presyncope or marked distress always requires immediate stopping and appropriate assistance. Study record. Record consent code, relevant population attributes, baseline, scenario, duration, ratings, observed tasks, assistance, withdrawal, adverse events and recovery. The investigator shall define additional physiological stop criteria where appropriate. A participant shall never be encouraged to suppress a report to keep a test valid.

RESULT	Select result	FINDING / ACTION ID	
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EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

Annex D | Acceptance criteria and draft performance targets

CHECK 0256 | D1

Source p. 36

Types of criteria

G is a mandatory qualitative or zero critical failure gate. P is a numerical performance target proposed for pilot evaluation in Working Draft 0.2; it is not yet an adopted population health threshold. L is a health or physical exposure limit that requires a completed, independently reviewed, scenario specific limit register. R is a claim specific performance criterion fixed before testing. Every applicable type is mandatory for a positive pilot result once selected by the method; P targets below shall not be weakened during testing. For G, zero observed critical failures is required in the specified tests. It does not imply a zero failure probability in the population. For L, the absence of a validated limit or executable method means not evaluable and blocks a full positive conclusion. Pilot research may still collect and report the raw results.

RESULT **FINDING / ACTION ID**

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0257 | D2 | source schedule row | part 1/18

Source p. 36

D01 G R

ID and type: D01 G R

Measured outcome: Critical fit and claimed population accommodation

Proposed decision rule: Every sampled critical fit and task case passes. A population coverage claim requires its one sided 95 percent lower confidence bound to meet the claimed proportion.

RESULT **FINDING / ACTION ID**

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0258 | D2 | source schedule row | part 2/18

Source p. 36

D02 P

ID and type: D02 P

Measured outcome: Sustained seating comfort at 120 minutes

Proposed decision rule: At least 80 percent of the tested cohort reports overall discomfort at most 3 and an increase from baseline at most 2; report every subgroup and withdrawal.

RESULT **FINDING / ACTION ID**

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0259 | D2 | source schedule row | part 3/18

Source p. 36

D03 G R

ID and type: D03 G R

Measured outcome: Powered adjustment and access

Proposed decision rule: No trapping, uncontrolled movement, restraint conflict or blocked required escape in the specified tests; limits for force and stopping distance fixed before test.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0260 | D2 | source schedule row | part 4/18

Source p. 36

D04 P G

ID and type: D04 P G

Measured outcome: Interface task success

Proposed decision rule: At least 95 percent of noncritical task trials completed correctly; no critical use error. Task time and visual demand ceilings separately fixed and justified.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0261 | D2 | source schedule row | part 5/18

Source p. 36

D05 P

ID and type: D05 P

Measured outcome: Ventilation at reference full occupancy

Proposed decision rule: During the stabilized 30 minute test, each occupied zone remains within outdoor carbon dioxide plus 800 ppm for at least 95 percent of valid time. This is a ventilation design target only.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0262 | D2 | source schedule row | part 6/18

Source p. 36

D06 P R

ID and type: D06 P R

Measured outcome: Installed particle reduction

Proposed decision rule: At least 80 percent count reduction in each declared 0.3 to 1 and 1 to 2.5 micrometre size band with both new and service limit filters; defined challenge, airflow and measurement validity required. Additional claims need their own targets.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0263 | D2 | source schedule row | part 7/18

Source p. 36

D07 L G

ID and type: D07 L G

Measured outcome: Chemical and particle exposure

Proposed decision rule: Every relevant agent meets its approved concentration and duration limit including uncertainty. No intentional occupied cabin ozone generation.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0264 | D2 | source schedule row | part 8/18

Source p. 36

D08 P R

ID and type: D08 P R

Measured outcome: Thermal comfort

Proposed decision rule: At least 80 percent of the cohort rates overall thermal sensation between minus 1 and plus 1 and accepts the condition during the stable test. Time to comfort and zone bands declared before test.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0265 | D2 | source schedule row | part 9/18

Source p. 37

D09 L G

ID and type: D09 L G

Measured outcome: Thermal injury and parked occupant risk

Proposed decision rule: Contact and environmental exposures meet population and duration specific limits under normal and credible fault conditions; verified protective action within the hazard time budget.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0266 | D2 | source schedule row | part 10/18

Source p. 37

D10 L R

ID and type: D10 L R

Measured outcome: Acoustic exposure and comfort

Proposed decision rule: Hearing related exposure meets the approved duration specific limit; comfort, tonality and annoyance claims meet separately declared criteria.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0267 | D2 | source schedule row | part 11/18

Source p. 37

D11 G P

ID and type: D11 G P**Measured outcome:** Alert perception and understanding**Proposed decision rule:** All tested critical alerts produce the required safe response within the hazard time budget; at least 95 percent correct comprehension for noncritical alerts.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0268 | D2 | source schedule row | part 12/18

Source p. 37

D12 L R

ID and type: D12 L R**Measured outcome:** Vibration and shock**Proposed decision rule:** Approved weighted exposure and shock limits met where health conformity is claimed; engineering comparisons use declared unweighted metrics and uncertainty.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0269 | D2 | source schedule row | part 13/18

Source p. 37

D13 R P

ID and type: D13 R P**Measured outcome:** Motion sickness reduction claim**Proposed decision rule:** Paired benefit estimate has a two sided 95 percent interval excluding no benefit in the favourable direction; one sided 95 percent upper bound on excess withdrawal proportion at most 5 percentage points.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0270 | D2 | source schedule row | part 14/18

Source p. 37

D14 P R

ID and type: D14 P R**Measured outcome:** Driver state detection**Proposed decision rule:** One sided 95 percent sensitivity lower bound at least 0.90; false alert rate upper bound at most 0.5 per hour; valid observability at least 95 percent in the claimed envelope. Event types and latency budgets separately specified.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0271 | D2 | source schedule row | part 15/18

Source p. 37

D15 G P

ID and type: D15 G P

Measured outcome: Remaining occupant warning

Proposed decision rule: No misses in the required occupied cases; initial local warning within 30 seconds of the defined parking or locking trigger and escalation within a further 60 seconds, or sooner if required by hazard analysis.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0272 | D2 | source schedule row | part 16/18

Source p. 37

D16 G R

ID and type: D16 G R

Measured outcome: Hygiene and disinfection

Proposed decision rule: No unsafe exposure or bypass of required interlocks; every stated microbial or allergen reduction meets its prespecified quantitative claim and detection capability.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0273 | D2 | source schedule row | part 17/18

Source p. 37

D17 G R

ID and type: D17 G R

Measured outcome: Aging faults privacy and recovery

Proposed decision rule: No unresolved critical failure; original applicable criteria met at the service limit; all seeded personal profiles removed or retained only under the disclosed verified exception.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0274 | D2 | source schedule row | part 18/18

Source p. 37

D18 G R

ID and type: D18 G R

Measured outcome: Fleet implementation

Proposed decision rule: Every sampled critical operational control effective; all applicable operational requirements demonstrated and all conformity findings closed.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0275 | D3

Source p. 37-38

Minimum human pilot coverage

For combined seating and interface pilots, use at least 24 independent adults with at least six participants aged 65 or over, representation across the intended sex and body size distribution, and targeted recruitment for each claimed capability group. Participants may satisfy several strata; the report shall show actual overlap. Children shall not be substituted into adult protocols. Their relevant needs require safe fixtures, caregiver tasks and separately reviewed age appropriate studies where necessary. These minima support feasibility and detection of common problems, not rare event claims or a universal accommodation percentage. Population coverage inference shall use a sampling design representative of the claimed population or a validated population model with quantified uncertainty; a deliberately selected boundary case cohort alone shall not support such inference. A confirmatory sample shall be calculated from the required confidence bound, expected variability, subgroup claims and clustering. Where a safety relevant subgroup is too small for the claimed conclusion, that result remains not evaluable. Withdrawals caused by the evaluated condition shall remain in the relevant denominator and shall be treated as unsuccessful outcomes for the affected comfort criterion. Unrelated missing data shall follow the frozen analysis plan. Results shall not be improved by deleting participants who could not tolerate the test. For C09, use at least 30 independent participants, at least 100 positive labelled events across the claimed event classes and at least 50 hours of verified negative observation for a pilot. These are collection minima only. Each claimed event class and required subgroup shall also meet D14 using sufficient independent evidence; pooled success shall not clear a failed subgroup. Repeated events from one person require cluster aware analysis.

RESULT FINDING / ACTION ID EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0276 | D4

Source p. 38

Operational triggers and exposure limits

For the D05 pilot, a carbon dioxide excursion above the operational target persisting for 60 seconds shall trigger a verified ventilation response within the following 60 seconds; recovery to the target shall occur within 10 minutes under the specified reference challenge. This is an engineering response proposal, not a guaranteed period of safe exposure. Other pollutants and hazardous conditions shall use the earlier action required by their reviewed exposure limits and time budgets. An L register entry shall contain agent or physical quantity, susceptible users, exposure route, averaging duration, numerical maximum or minimum, evidence basis, environmental boundary, cumulative exposure treatment, uncertainty allowance, control trigger, response time and approving specialist. Evidence may be held in the technical dossier without being incorporated by reference into this standard. A blank numerical value, a generic statement of legal compliance or a supplier marketing claim is not a completed entry.

RESULT FINDING / ACTION ID EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0277 | D5

Source p. 38

Uncertainty and decision rules

For an upper limit L and measured result x with appropriate one sided uncertainty allowance U, pass requires $x + U$ at most L. For a lower limit, pass requires x minus U at least L. If the uncertainty interval crosses the boundary, classify as not evaluable pending better evidence or corrective action. Do not round a failing value into a pass. For P acceptance percentages, report numerator, denominator, missing data and confidence interval. Unless an entry explicitly requires a confidence bound, its percentage is a pilot observed proportion gate only. Population wide claims additionally require confirmatory inference. Percentages across participants, trials and time are different quantities and shall not be substituted for one another.

RESULT	Select result	FINDING / ACTION ID	
EVIDENCE / OBSERVED RESULT / N/A RATIONALE			

Requirements & evidence

Annex E | Critical gates and failure classification

CHECK 0278 | E1 | part 1/11

Source p. 39

Minimum critical gate register

The following conditions shall block a positive conclusion when relevant to the scope. The list is not exhaustive; the hazard register shall add application specific critical conditions.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0279 | E1 | source schedule row | part 2/11

Source p. 39

E01

Gate: E01

Critical condition: Unsafe restraint geometry, critical reach failure or unverified moving seat posture

Required evidence before closure: Corrected geometry, safety interface review and repeated fit or movement tests

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0280 | E1 | source schedule row | part 3/11

Source p. 39

E02

Gate: E02

Critical condition: Trapping, blocked required escape or unsafe powered access

Required evidence before closure: Fault test, release demonstration and intended user verification

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0281 | E1 | source schedule row | part 4/11

Source p. 39

E03

Gate: E03

Critical condition: Uncontrolled harmful air or thermal exposure

Required evidence before closure: Exposure measurements, valid limits and verified protective response

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0282 | E1 | source schedule row | part 5/11

Source p. 39

E04

Gate: E04

Critical condition: Required remaining occupant protection misses a case

Required evidence before closure: Cause analysis and all affected scenario tests repeated

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0283 | E1 | source schedule row | part 6/11

Source p. 39

E05

Gate: E05

Critical condition: Harmful heater, light, sound, electrical or disinfection output

Required evidence before closure: Independent limiting protection and fault verification

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0284 | E1 | source schedule row | part 7/11

Source p. 39

E06

Gate: E06

Critical condition: Critical information absent, misleading or masked

Required evidence before closure: Integrated alert and user response verification

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0285 | E1 | source schedule row | part 8/11

Source p. 39

E07

Gate: E07

Critical condition: Sensing falsely reports availability when its loss defeats essential protection

Required evidence before closure: Availability detection, degraded mode and safe fallback evidence

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0286 | E1 | source schedule row | part 9/11

Source p. 39

E08

Gate: E08

Critical condition: Software or adaptive control causes unsafe vehicle or seat actuation

Required evidence before closure: Bounded control verification, fault testing and update review

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0287 | E1 | source schedule row | part 10/11

Source p. 39

E09

Gate: E09

Critical condition: Critical defect remains in production or a dispatched vehicle

Required evidence before closure: Containment, scope investigation and effective correction

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0288 | E1 | source schedule row | part 11/11

Source p. 39

E10

Gate: E10

Critical condition: Essential safety evidence or health limit is missing

Required evidence before closure: Complete reviewed method, numerical criterion and valid test result

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0289 | E2

Source p. 39

Relationship to domain results

A critical gate applies to the affected assessment profile irrespective of the number of other passing domains. The assessor shall identify affected variants, functions and operations rather than assuming the smallest possible scope. A missing optional feature does not fail a gate unless the feature or an equivalent control is needed to manage an applicable hazard.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0290 | E3

Source p. 39

Classification examples

A missing calibration that undermines a critical exposure result blocks acceptance. A typographical error with an unambiguous underlying record may be minor but shall be corrected before decision. An enhancement beyond a fulfilled requirement is an observation. Classification shall always reflect the actual consequences and affected scope.

RESULT**FINDING / ACTION ID****EVIDENCE / OBSERVED RESULT / N/A RATIONALE**

Requirements & evidence

Annex F | Evidence structure and decision workflow

CHECK 0291 | F1 | source schedule row | part 1/10

Source p. 40

Record identity

Field: Record identity

Required content: Unique evidence ID, version, creation date and responsible person

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0292 | F1 | source schedule row | part 2/10

Source p. 40

Requirement

Field: Requirement

Required content: Clause or annex identifier and applicant derived requirement

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0293 | F1 | source schedule row | part 3/10

Source p. 40

Scope

Field: Scope

Required content: Profile, variant, serial or lot identity, software and relevant options

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0294 | F1 | source schedule row | part 4/10

Source p. 40

Scenario

Field: Scenario

Required content: Population or fixture, task, duration, environment and operating state

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0295 | F1 | source schedule row | part 5/10

Source p. 40

Method

Field: Method

Required content: Executable specification revision, apparatus, calibration and processing

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0296 | F1 | source schedule row | part 6/10

Source p. 40

Criterion

Field: Criterion

Required content: Type G P L or R; numerical value where relevant; uncertainty rule

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0297 | F1 | source schedule row | part 7/10

Source p. 40

Observation

Field: Observation

Required content: Raw data location and integrity check, sample count and deviations

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0298 | F1 | source schedule row | part 8/10

Source p. 40

Result

Field: Result

Required content: Measured outcome, units, uncertainty and subgroup breakdown

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0299 | F1 | source schedule row | part 9/10

Source p. 40

Disposition

Field: Disposition

Required content: Pass, fail, not evaluable or not applicable, with reason

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0300 | F1 | source schedule row | part 10/10

Source p. 40

Review

Field: Review

Required content: Reviewer, review date, findings, corrective action and closure evidence

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0301 | F2

Source p. 40

Decision sequence

The assessor shall first confirm scope and configuration identity, then check the applicability register, then confirm that methods and limits were fixed, then evaluate critical gates, then review all remaining requirements and findings, and finally issue the bounded conclusion. Failure of a critical gate requires containment before continuing tests that could expose people or product users to harm.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0302 | F3

Source p. 40

Coverage calculations

Evidence coverage is the number of applicable requirements with a completed valid evaluation divided by the total number of applicable requirements. A failed requirement may have complete evidence; a not evaluable requirement does not. The conformity pass proportion is the number of passing applicable requirements divided by all applicable requirements. Neither percentage independently authorizes a positive conclusion. Full conformity requires complete coverage, every applicable requirement passing and all critical gates satisfied.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0303 | F4

Source p. 40

Claim dossier

The dossier shall contain the scope and configuration register, hazard and limit registers, method package, population rationale, raw evidence index, test reports, software and supplier change assessments, user instructions, findings and closure, independent decision and proposed public summary. Confidential evidence shall be accessible to authorized reviewers with appropriate protection.

RESULT**FINDING / ACTION ID****EVIDENCE / OBSERVED RESULT / N/A RATIONALE**

Requirements & evidence

Annex G | Working forms and example records

CHECK 0304 | G1

Source p. 41

Scope declaration form

Applicant and technical owner: complete before testing. Assessment object and profile: identify V, C or O and any extension. Vehicle or component identity: record exact variants and software. Intended populations and markets: define supported users. Scenarios and duration: identify operational envelope. Exclusions and rationale: list individually. Critical interfaces: identify required supporting evidence. Assessor and decision reviewer: record names, roles and independence. Signature and date: complete at plan approval.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0305 | G2

Source p. 41

Test record form

Evidence ID: assign before test. Requirement and method: cite the internal identifiers. Article and sample: identify selection and conditioning. Equipment and calibration: attach records. Criterion and decision rule: freeze before execution. Raw results and uncertainty: attach complete data. Deviations, invalid runs and adverse events: list all. Result: pass, fail or not evaluable. Reviewer and date: record approval. Corrective action link: retain the original result after correction.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0306 | G3

Source p. 41

Finding form

Finding ID and severity: assign from the observed consequence. Affected requirement and scope: identify precisely. Objective evidence: state what was observed. Immediate containment: assign an owner and deadline. Cause investigation: consider all relevant configurations. Correction and systemic action: distinguish the two. Verification: identify the repeated tests and regression checks. Closure: require independent review and record the date.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0307 | G4

Source p. 41

Illustrative completed evidence item

The following values are fictitious and demonstrate record structure only. They shall not be used as product evidence or health limits. Evidence DEMO01 evaluates D05 at reference conditions, maximum occupancy surrogates and a specified service limit filter. Outdoor carbon dioxide is 450 ppm; the operational target is therefore 1250 ppm. The maximum valid stabilized cabin result is 1180 ppm, corresponding to a paired indoor minus outdoor difference of 730 ppm. A combined one sided uncertainty allowance of 40 ppm for that difference gives a guarded difference of 770 ppm, below the proposed 800 ppm difference criterion. All zones remain below the target throughout the valid 30 minute period, giving a pilot pass for this scenario only. Hot weather, sensor failure and other pollutants remain separate required evaluations.

RESULT	Select result	FINDING / ACTION ID	
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EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0308 | G5

Source p. 41

Reviewer comment log

Each development comment shall record the clause, issue, proposed wording, technical rationale, expected impact, owner, disposition and verification needed. Accepted comments shall link to the revised text; rejected comments shall retain a reason. This form supports controlled development and does not replace the evidence needed for publication.

RESULT	Select result	FINDING / ACTION ID	
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EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

Annex H | Calculations and reporting conventions

CHECK 0309 | H1

Source p. 42

Averaging exposure

For piecewise constant exposure, the time weighted mean is the sum of each concentration multiplied by its duration, divided by total duration. Concentration and time units shall be consistent. A mean shall always be accompanied by peaks and relevant short duration exceedances; it shall not erase a failed shorter averaging period. For continuous measured data, integration shall use the stated sample intervals and valid data mask. Missing periods shall not be filled with zero. The method shall define an acceptable missing fraction and a conservative rule or repeated test where missingness could conceal a critical event.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0310 | H2

Source p. 42

Particle reduction

Installed reduction percentage equals 100 multiplied by one minus downstream concentration divided by upstream concentration for the same defined size band and time aligned stable challenge. Sampling locations shall represent the installed air path being claimed. Upstream concentration shall be sufficiently above the reporting limit and stable enough to support the ratio. Adjacent particle size bands shall use a nonoverlapping boundary convention: include the lower bound and exclude the upper bound, except that the upper bound of the last reported band may be included; record the convention used. A whole cabin indoor to outdoor ratio is a different metric and shall be labelled as such; it does not isolate filter efficiency.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0311 | H3

Source p. 42

Acoustic aggregation

For equivalent sound levels L_i over intervals t_i , compute each energy term as t_i multiplied by 10 raised to the power (L_i divided by 10). Divide the sum of these energy terms by total time, then take 10 times the base 10 logarithm of that ratio. Levels shall use compatible frequency weighting and reference quantity. Arithmetic averaging of decibel values shall not be used for exposure aggregation.

RESULT

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0312 | H4

Source p. 42

Vibration aggregation

The RMS acceleration is the square root of the time average of squared acceleration. A fourth power dose is the fourth root of the integral of acceleration raised to the fourth power; its unit is metres per second to the power 1.75 when acceleration is in metres per second squared and time in seconds. These definitions alone do not determine a biological weighting or a health limit. Where an eight hour normalized weighted acceleration is used, it equals the square root of the sum of each squared weighted acceleration multiplied by exposure duration, divided by eight hours, using consistent time units and an approved axis combination. The exact weighting functions, axis factors, treatment of shocks and validity of accumulation shall be included in the method package. Unweighted signals shall not be substituted into a weighted health limit.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0313 | H5

Source p. 43

Classification performance

Sensitivity equals true positive events divided by all labelled positive events. Specificity equals true negative events divided by all labelled negative events where a defensible negative event definition exists. False alert rate equals false alerts divided by valid negative observation hours. Availability equals valid observable time divided by the time the function is expected to be available, including foreseeable occlusion within the claimed normal operating envelope. Deliberate fault injection results shall be reported separately under C09 and C12. Latency is the interval from the independently labelled onset to the first qualifying alert. Report the full distribution and a prespecified upper percentile rather than a mean alone. When events are censored or missed, they shall remain visible as failures or censored observations according to the frozen plan.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

CHECK 0314 | H6

Source p. 43

Confidence and comparison

Binomial confidence bounds may be used only where the independence assumption is supportable. Repeated participants, vehicles and sessions shall use an appropriate hierarchical model, cluster bootstrap or other justified approach. A zero observed count shall be accompanied by an upper confidence bound rather than reported as zero underlying risk. Paired benefit analyses shall preserve pairing, sequence and withdrawals. Percentage point differences shall be distinguished from relative percentage changes. Analysis code, software version, random seed where used and the handling of missing data shall be retained.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Requirements & evidence

CHECK 0315 | H7

Source p. 43

Measurement decisions

Uncertainty allowances shall have a stated coverage probability and method. Values measured near a boundary shall retain sufficient precision for the decision; public rounding shall occur after classification. A report shall state whether uncertainty includes participant and production variation or only the measurement process.

RESULT

Select result

FINDING / ACTION ID

EVIDENCE / OBSERVED RESULT / N/A RATIONALE

Findings & corrective action

Use one record per finding. Link every affected checklist ID and source clause. Add identified continuation records for further findings. Preserve the original result and document retest evidence before closure.

CORRECTIVE ACTION RECORD 1

FINDING ID

CHECK / CLAUSE IDS

SOURCE SEVERITY / GATE

OBSERVATION, REQUIREMENT AND OBJECTIVE EVIDENCE

IMMEDIATE CONTAINMENT / AFFECTED CONFIGURATIONS

ROOT CAUSE AND CORRECTIVE ACTION

RESPONSIBLE OWNER / DUE DATE

RETEST EVIDENCE / REVIEWER / CLOSURE DATE

CORRECTIVE ACTION RECORD 2

FINDING ID

CHECK / CLAUSE IDS

SOURCE SEVERITY / GATE

OBSERVATION, REQUIREMENT AND OBJECTIVE EVIDENCE

IMMEDIATE CONTAINMENT / AFFECTED CONFIGURATIONS

ROOT CAUSE AND CORRECTIVE ACTION

RESPONSIBLE OWNER / DUE DATE

RETEST EVIDENCE / REVIEWER / CLOSURE DATE

Assessment conclusion & review

Summarize the assessed scope and source-specific decision. Counts are manual cross-checks and do not override an unresolved requirement, critical gate, score cap or mandatory evidence condition.

APPLICABLE CHECKS

PASS

FAIL

NOT DEMONSTRATED

NOT APPLICABLE

OPEN CRITICAL GATES / BLOCKED CONFIGURATIONS / REASSESSMENT TRIGGERS

ASSESSMENT LIMITATIONS, EXCLUSIONS AND UNRESOLVED EVIDENCE

SOURCE-SPECIFIC CONCLUSION AND SUPPORTING DECISION RECORD

- ☐ All applicable check records and source dependencies have been reviewed.
- ☐ No unresolved critical failure is being accepted through averaging or a general pass count.
- ☐ The conclusion is restricted to the identified scope, configuration, evidence and draft status.

ASSESSOR NAME / ROLE

INDEPENDENT REVIEWER NAME / ROLE

ASSESSOR SIGN-OFF (TYPED NAME)

REVIEWER SIGN-OFF (TYPED NAME)

DATE

DATE

Sign-off fields accept typed names; they are not cryptographic digital-signature fields. Apply the organization's approved signing process where a formal signature is required. Final conformity, certification or label authorization remains subject to the source scheme and its adoption controls.

Continuation & additional evidence

Identify every continuation record and its parent checklist or finding. Additional sheets may be retained as separately identified evidence; preserve the link in the parent field.

CHECK / FINDING ID AND CONTINUATION REFERENCE

ADDITIONAL EVIDENCE, MEASUREMENTS, RATIONALE OR VERIFICATION

CHECK / FINDING ID AND CONTINUATION REFERENCE

ADDITIONAL EVIDENCE, MEASUREMENTS, RATIONALE OR VERIFICATION

CHECK / FINDING ID AND CONTINUATION REFERENCE

ADDITIONAL EVIDENCE, MEASUREMENTS, RATIONALE OR VERIFICATION