



DEPARTMENT OF THE AIR FORCE
HEADQUARTERS AIR FORCE LIFE CYCLE MANAGEMENT CENTER
WRIGHT-PATTERSON AIR FORCE BASE OHIO

BULLETIN

AWB-140

2 June 2021

(supersedes AWB-003A
and AWB-005)

United States Air Force Airworthiness Bulletin-140

Subject: Compliance Report

Attachment: References and Supporting Information

1. **Purpose.** This bulletin defines the process to develop and approve the Airworthiness (AW) Compliance Report (CR) for new air systems and air system modifications.
2. **Office of Primary Responsibility.** United States Air Force (USAF) Airworthiness Office, AFLCMC/EZZ, USAF.Airworthiness.Office@us.af.mil.
3. **Applicability.** All air systems that the USAF owns, leases, uses, operates, designs, or modifies.
4. **Policy.** AFPD 62-6 requires that the USAF design and/or modify air systems to comply with airworthiness criteria appropriate for the air system type and intended use (when applicable, using MIL-HDBK-516, *Airworthiness Certification Criteria*). The USAF must:
 - 4.1 conduct independent airworthiness assessments to evaluate air system configurations, utilizing airworthiness criteria appropriate for the air system type and intended use.
 - 4.2 define operating limitations and other operating information necessary to ensure appropriately safe air systems.
5. **Background.** The CR builds on the Certification Basis (CB) (ref. AWB-130, *Certification Basis*). The CB is the foundation of AW assessments independently conducted by the Technical Airworthiness Authority (TAA). The CR adds to the approved CB the substantiating data that shows compliance, statements of compliance, associated hazards and risk levels due to non-compliances, and risk-mitigating restrictions. The Air Force Life Cycle Management Center (AFLCMC) has established a Standard Process for *TAA-issued Airworthiness Approvals for New Air Systems and Reportable Modifications to Air Systems*. Program Offices (PO) should refer to this Standard Process for information and guidance regarding the CR process for new air systems and reportable modifications. The appropriate approval authorities for AW products are documented in AWB-225, *Airworthiness Delegated Technical Authorities*. The Standard Process and AWB-225 may be found on the USAF AW SharePoint site (ref. AWB-100, *Airworthiness Process Overview and Terminology*, for a link).
6. **Required Content.** The CR contains the approved CB and includes, for each criterion:
 - 6.1 Substantiating data references, to include document identifiers and titles that specifically support showing of compliance for the criterion. The CR should also identify the location of any substantiating data and specific detailed references within (sections, pages, paragraphs, etc.).
 - 6.2 A statement of full compliance (either Yes or No).
 - 6.2.1 If compliance is No, provide the following (ref. AWB-150B, *Airworthiness Risk Assessment and Acceptance*):
 - 6.2.1.1 Non-compliance rationale. This rationale should clearly state the primary driver for the hazard(s).

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6.2.1.2 Clear and concise hazard statement(s) focused on the source, mechanism and outcome of the hazard(s) associated with the non-compliance.

6.2.1.3 The initial Risk Assessment Code (RAC). The initial RAC considers all available compliance artifacts and restrictions/limitations documented in referenced technical data.

6.2.1.4 Recommended restrictions to enable mitigation of the initial RAC assessed.

6.2.1.5 Target RAC considering the full implementation of the stated restrictions.

6.2.2 If compliance is Yes, rationale should be provided for the determination of compliance.

7. **Format.** A CR builds on the same format as the CB, which can be found on the USAF AW SharePoint site (ref. AWB-100 for a link to the site). For non-reportable projects meeting the conditions defined in AC-19-05, *Alternate Airworthiness Product Format for Non-reportable Modifications*, Template 140-1 may be utilized. The Airworthiness Certification Tool (ACT) should be utilized for all new air systems and reportable modifications. POs should contact the USAF AW Office to obtain concurrence on alternate formats.

8. **Qualified and experienced personnel.** The PO should use personnel having AW Subject Matter Expert (SME) Endorsement (ref. AWB-230 *AW Expert Endorsement*) or validated Competency Management Skill Levels of Intermediate, Advanced, or Expert in the impacted technical disciplines (ref. the AFLCMC Standard Process for *Competency Management*) to show and, as appropriate, find compliance with applicable criteria.

9. **CR Approval.** Approval of the CR will be obtained using the authorities defined in AWB-225. Contact the USAF AW Office when TAA approval is required or when a Delegated Technical Authority (DTA) is not assigned.

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USAF Technical Airworthiness Authority

ATTACHMENT

REFERENCES AND SUPPORTING INFORMATION

References

AC-19-05, *Alternate Airworthiness Product Format for Non-reportable Modifications*
AFPD 62-6, *USAF Airworthiness*
AFLCMC Standard Process for *Reportable Airworthiness Flight Authorizations (TAA-issued Airworthiness Approvals)*
AFLCMC Standard Process for *Competency Management*
AWB-100, *Airworthiness Process Overview and Terminology*
AWB-130, *Certification Basis*
AWB-150B, *Airworthiness Risk Assessment and Acceptance*)
AWB-225, *Airworthiness Delegated Technical Authorities*
AWB-230, *AW Expert Endorsement*
MIL-HDBK-516, *Airworthiness Certification Criteria*

Abbreviations and Acronyms

ACT – Airworthiness Certification Tool
AFLCMC – Air Force Life Cycle Management Center
AFPD – Air Force Policy Directive
AW – Airworthiness
AWB – Airworthiness Bulletin
CB – Certification Basis
CR – Compliance Report
DTA – Delegated Technical Authority
PO – Program Office
SME – Subject Matter Expert
RAC – Risk Assessment Code
TAA – Technical Airworthiness Authority
USAF – United States Air Force