

Approved Model List Supplemental Type Certificates for Wireless Local Area Network Installations

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Administration**



Agenda

- **Requirements/Conditions For AML STCs**
- **WLAN Issue Paper Requirements – Part 25**
- **Data Requirements**
- **Benefits**
- **Some Misunderstandings**
- **Example AML STC**



Requirements for AML STCs

- **Installation Instructions on “each type-certificated product are specific and objective”**
- **“Effect of the change applies to all type-certificated products addressed by the approval”**

Reference Order 8110.4C, Change 2



Conditions for an AML STC

- **Data Package consists of “design and certification data” – Master Package or Multiple Packages**
- **Data Package Identifies All Design Or Installation Differences**
- **Installation Complexity Is Similar**
- **No Substantial Re-Evaluation of Type Certificate**
- **Flight And Operational Remain Unchanged**
- **Noise Or Emissions Remain Unchanged**

Reference Order 8110.4C, Change 2



WLAN Issue Paper – Part 25 Aircraft

- **ElectroMagnetic Compatibility (EMC) Tests**
- **List Of All Required, Essential and Critical Aircraft Equipment Evaluated**
- **Airplane Flight Manual Supplement (AFMS)**
- **Instructions for Continued Airworthiness (ICA)**

AML STC Data Requirements

- **STC Application and Project Specific Certification Plan (PSCP) for Each New Make/Model Added**
- **Specific Design and Installation Data For Each Make/Model Aircraft**
 - Master Drawing List (MDL)
 - Specific Installation Data With Structural and Damage Tolerance Analysis (DTA)
 - Detailed Wire Routing and Safety Assessment
 - Installation Conformity/Ground and Flight Testing
 - Airplane Flight Manual Supplement (AFMS)
 - Instructions For Continued Airworthiness (ICA)

AML STC Benefits

- **Add Aircraft Make/Models Without Changing The STC (update the AML)**
- **Design Changes Are Easier**
- **Configuration Control**
- **Compliance Data May Be Applied On Multiple Aircraft.**
- **Avoid Duplication Of Testing And Data**



AML STCs – Some Misunderstandings

- **Not Used To Relax The Certification Requirements – Must Comply To Appropriate Regulations**
- **Not A Blanket Approval That Delegates The Integration To The Installer**
- **Cannot Be Split – Holder Can Only Transfer Entire STC**

NOTE: EASA does not recognize FAA AML STC

Example AML STC



• Questions?

