



Federal Aviation Administration

Memorandum

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To: See Distribution List

From: for David W. Hempe, Manager, Aircraft Engineering Division, AIR-100

Prepared by: Jon Mowery, Engineering Procedures Office, AIR-110

Subject: Clarification of the Guidance in Order 8110.37E, Paragraph 4-12 e) Regarding Approval of Data for Repairs

Memo No.: AIR-100-12-100-002

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There has been some confusion over which regulations to cite in block 9 of the FAA Form 8110-3 when approving data for repairs to auxiliary power units (APUs) that meet the specifications of Technical Standard Order (TSO)-C77. This memo clarifies which regulations should be used in block 9 in this circumstance.

Order 8110.37E paragraph 4-12 e) states in part that “for a major repair, the data must show that the repaired part is still compliant via a showing that the applicable airworthiness standards of the certification basis of the product, to which the part is installed, have not been invalidated by the repair.”

Some Designated Engineering Representatives (DERs) have been putting TSO-C77 in block 9 as a way of attesting to the fact that the repair is compliant with the requirements of the TSO. This is not appropriate. A DER can only find compliance to airworthiness standards, i.e., Title 14 U.S. Code of Federal Regulations (14 CFR) §§ 23, 25 27, etc. As stated in Order 8110.37E paragraph 4-12 e), the data for a repair must show the repaired part is compliant with the applicable airworthiness standards. A TSO is not an applicable airworthiness standard. The airworthiness standards are determined from the certification basis of the product on which the part/article is installed. For an APU, these airworthiness standards might include: 14 CFR §§xx.601, xx.603, xx.605 and xx.1301 and xx.1309.

Although not required, the DER may include a note in the List of Data block that indicates that incorporation of the approved repair data does not invalidate an APU’s conformance with TSO-C77.

This clarification will be included in the next revision to the Order 8110.37. If there are any questions, please contact Jon Mowery, Engineering Procedures Office, AIR-110, at 562-627-5207 or jon.mowery@faa.gov.

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