

Grant Robinson

From: McConnell, DAVE P <dave.p.mcconnell@lmco.com>
Sent: Wednesday, October 18, 2017 9:43 AM
To: Grant Robinson
Subject: IEHSI FAR 43 test procedures

Grant

Following is the factory response to my FTR requesting clarification of EASI test procedures per FAR 43 Appendix E.

Case Number: C0071332
Customer: Thai Aviation Services Limited
Aircraft S/N: 7610XX
Aircraft Model: S-76D
ATA: 34
Part Number: C16221AQA02
Case Subject: S-76D IEHSI Test Requirements Per FAR 43 Appendix E

Problem Description:

TAS is required to comply with Thai CAAT AD 133-253, which requires altimeters to be inspected per FAR 43 Appendix. E, which states:

(b) Altimeter

(2) Altimeters which are the air data computer type with associated computing systems, or which incorporate air data correction internally, may be tested in a manner and to specifications developed by the manufacturer which are acceptable to the Administrator.

This FAR requirement requires TAS to remove an altimeter and send it to an appropriately rated instrument shop to carry out this inspection.

TAS note that on the S76D there is no stand-by altimeter per se, but there is the P/N C16221AQA02 IEHSI which displays, among other data, ADC-derived altitude.

FAR Paragraph 2 states the altimeter may be tested but does not specify how.

TAS requests clarification regarding the following:

- 1) Is the IEHSI installed on the S-76D subject to the requirements of FAR 43, Appendix E (b) (2)?
 - 2) Is there any test that TAS could perform in the field that would satisfy the FAR requirements?
- EoM

This email notification is provided as the case has been reviewed and does not contain technical data in the issue description.

Problem Resolution:

- 1) The IEHSI installed on the S-76D is subject to the requirements of FAR 43, Appendix E (b) (2)
- 2) In general, the basic procedure to do the test is in 34-16-00-710-002 and 31-63-00-710-008 and associated tables 103 and their associated set-up steps. Note that these steps may not fully cover Appendix E, part 43 data points. Many repair stations will simply comply with Appendix E, as required by the regulation and their operational specifications.

This email notification is provided as the case has been reviewed and does not contain technical data in the resolution.

David P. McConnell

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