

SOUTH AFRICAN



CIVIL AVIATION
AUTHORITY

J15/12 Gen

Mr. Dean Khumalo

Senior Manager Airworthiness

Tel: +27115451000

AIRWORTHINESS DIVISION

MAINTENANCE ADVISORY NOTICE # 043

GENERAL: Changes to an aircraft's installed equipment and the completion of form CA 43-02 or CA 43-03 inspection reports.

Purpose of this maintenance advisory notice

Aircraft installed Equipment

It has come to this Authority's attention that a significant amount of South African registered aircraft are currently equipped with installed equipment which did not form part of the aircrafts' original equipment list. It is important to remember that any change affecting a South African registered aircrafts' installed equipment requires a SA CAA modification approval.

It has also been noticed that AMO's do not in all cases accurately indicate changes in installed equipment on the SA CAA form CA 43-02 or CA 43-03 inspection report as is required. Installed equipment must be verified correct as per the approved equipment list and relevant type certificate (TCDS).

Examples of equipment changes include changes that affect radio and avionic equipment installed to South African registered aircraft. This must be indicated at item 8 of the Mandatory Inspection Report form CA 43-02 or CA 43-03.

Proposed solution

Based on the above it is recommended that the following approach be taken to eliminate the current problem with changes in installed equipment:

- A twelve (12) month general amnesty period from the 1 May 2010 is hereby granted to aircraft owners and AMO's to compare the actual installed equipment to the current equipment list of any subject aircraft. Where any discrepancies have been noted, an application for a modification approval shall be made to the SA CAA
- This MAN shall not apply to aircraft imported from other ICAO signatory states which have previously approved changes to installed equipment done in accordance with approved data or STC.
- If previously approved changes to installed equipment are found in an aircraft, a Certificate Relating to Maintenance of an Aircraft confirming that the installation was carried out in accordance with approved data must be submitted to this Authority by the relevant AMO.
- Modification approvals must be submitted to the SA CAA before to the next Release to Service is made.

- All temporary modifications must also be finalised during the same twelve (12) month general amnesty period.
- Evidence of a safe service history with regards to modifications previously embodied must be submitted. E.g. Inspection reports, copies of logbooks etc.
- The owner or operator must submit an affidavit stating that he /she were either not aware of nor authorised the change in installed equipment.
- Adequate data for the safe operation of any installed equipment as per the requirements of AIC 61.6.

Compliance

Compliance with this MAN is considered mandatory by this Authority.

Modifications

CAR 43.02.15 (1) No person shall, without the prior written approval of the Commissioner, carry out any modifications, including changes to equipment or the installation thereof, which affect, or are likely to affect, the serviceability of the aircraft, or the safety of its occupants or of any other persons or property.

(2) Before the approval of the Commissioner is considered for a modification as referred to in sub-regulation (1), the owner of the aircraft, or any other person who applies for the modification, shall –

(a) furnish the Commissioner with such information, data, calculations, reports on tests, drawings or wiring diagrams relating to the design, and proof of effectiveness or airworthiness of such modification, as the Commissioner may require; and

(b) be accompanied by the appropriate fee as prescribed in Part 187.

(3) Notwithstanding the provisions of sub-regulations (1) and (2), such modifications as may from time to time be recommended by the manufacturer of the type of aircraft or equipment concerned, may be carried out if the modifications are carried out in accordance with the said manufacturer's recommendations.

Requirements for standard or restricted category certificate of Airworthiness (CAR 21.08.3 (2))

(2) The applicant shall, in addition to the provisions of subregulation (1), provide the Commissioner with proof that –

(a) the aircraft conforms to an appropriate type certificate or type acceptance certificate;

(b) any modification to the aircraft conforms to the design changes approved for the type;

(c) the aircraft complies with the appropriate airworthiness directives issued in terms of Regulation 21.01.4;

(d) the aircraft is issued with the appropriate flight manual, and any logbooks, repair and alteration forms and documents which the Commissioner may require; and

(e) the aircraft is in a condition for safe operation.

Conclusion

The twelve (12) month general amnesty period shall commence on the 1 May 2010. Any aircraft found with installed equipment other than that described in the approved manufacturers' equipment list shall be considered to be not airworthy at the end of the twelve (12) month general amnesty period. This period shall end on the 30 April 2011. Un-approved installed equipment will need to be removed upon reaching this date.

Aircraft owners and operators found to be in non-compliance with this MAN and CAR 21.08.3 (2) or any part thereof shall risk the grounding of their aircraft in terms of CAR Part 13.01.1 1 (c) until such time that any discrepancies with installed equipment have been satisfactorily addressed in terms of the relevant regulatory requirements.

This maintenance advisory notice is issued in the interest of aviation and public safety.



Director for Civil Aviation (Acting)

Date 2010-05-05