



Barbados Civil Aviation
Department

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AIRWORTHINESS

ADVISORY

CIRCULAR

ACCEPTANCE OF AIRCRAFT COMPONENTS AND MATERIAL.

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1. Introduction.

This Circular provides guidance to an Approved Maintenance Organisation for the acceptance of aircraft components and materials from outside sources.

2. Definitions.

Component: a part intended for installation in an aircraft, its engines, propellers or equipment where such parts have a part number allocated by the aircraft, engine, propeller or equipment type certificate holder unless the said TC holder has designated such parts as standard parts.

Standard Parts: are those items of aircraft general spares (AGS) which comply with a national or international standard or specifications recognized by the BCAD.

Note: This is intended to cover minor items complying with AGS, SBAC, BSI, TSO or similar national standards from which the AMO can assess the items as suitable for the intended purpose.

Consumable Material: Consumable material is any material which is only used once, such as lubricants, cements, compounds, paints, chemicals, dyes and sealants

Raw Material: Raw material is any material that requires further work to make it into a component part of the aircraft such as metals, plastics, wood and fabric.

THE CERTIFYING PERSON AND USER RESPONSIBILITY

3. 3.1. The Certifying Person (User) can be either the Approved Maintenance Organisation, a person authorised in accordance with that organisation's Maintenance Procedures Manual, or an appropriately BCAD Type Rated Licensed Engineer, who issues the Certificate of Release to Service for installation of an aircraft part into an aircraft, its engine(s), propeller(s) or equipment.

3.2. The User of an aircraft part is responsible for ensuring that the part is serviceable and conforms to the standard determined by the appropriate type certificate holder as being suitable for the intended application. In order to discharge this responsibility to the satisfaction of the BCAD, the user must, when obtaining an aeronautical part from a supplier:

- (a) Ensure that the purchase order contains an accurate definition of the aircraft parts and full details of the quality control and certification requirements to be met by the supplier in satisfying the order;
- (b) Take all necessary steps to verify that the supplier is meeting the requirements of the purchase order. This may require the user visiting the suppliers facilities.

4. Quality Control and Certification Requirements.

New Components. All new components can only be accepted for use when accompanied by one of the following certificates:

- a). A JAA Form One if from a manufacturing source within the JAA.
- b). An FAA Form 8130-03 if from a manufacturing source within the USA.
- c). A TCA Form 24-0078 if from a manufacturing source within Canada.
- d). An appropriate Certificate of Conformity if from the Original Equipment manufacturer.
- e). New components must have a part number that can be identified from the Illustrated Parts Catalogue (IPC) issued by the type Certificate Holder. The use of any alternative part number must be supported by the Type Certificate holder.

4.2 New components from a Parts Dealer or Distributor.

Aircraft component distributors provide an essential service in the supply of aircraft components however, the AMO approved under Civil Aviation (AMO) Regulations 8 remains responsible for acceptance of the aircraft components supplied by them. Aircraft component distributors are not approved by the BCAD and they do not possess the necessary technical expertise to establish the status of aircraft components. Therefore it is the responsibility of the approved AMO to ensure the following.

- a). that all component distributors they purchase from only acquire aircraft components from an approved source and are received under cover of a certificate as specified in paragraph 4.1.
- b). that all components are stored in an acceptable manner and are dispatched in the same condition in which they arrived.
- c). that the distributor issues with the component a Certificate of Conformity which must be endorsed "Authorised Release Documentation". That the aircraft component is on file, Ref, No..... and will be made available to the approved AMO on request.
- d). as part of their Quality Control procedures the AMO should periodically request a copy of the Authorised Release Documentation referred to in c) above.

4.3 Standard Parts.

When Standard parts are ordered, the purchase order should clearly state the national or international standard to which that part must conform and the purchaser must request a Certificate of Conformance that states, at least, that the standard parts conform to the requirements of the purchase order. The Certificate of Conformance must be signed by a signatory recognizable and acceptable to the AMO.

4.4 Consumable Materials.

When Consumable Materials are ordered, the purchase order should clearly state the national

or international standard to which the material must conform and the purchaser must request a Certificate of Conformance that states that the material conforms to the requirements of the purchase order and, this C of C must be signed by a signatory recognizable and acceptable to the AMO.

4.5 Raw Materials.

When Raw Materials are ordered, the purchase order should clearly state the national or international standard to which the material must conform and the purchaser must request a Certificate of Conformance that states that the material conforms to the requirements of the purchase order and, this C of C must be signed by a signatory recognizable and acceptable to the AMO.

5. Certification to USA Technical Standard Orders. (TSO).

A Technical Standard Order (TSO) is a minimum performance standard prescribed by the Federal Aviation Administration (FAA) of the USA for specified articles, materials, parts, processes or appliances used on civil aircraft. In general, the AMO may accept a TSO as meeting a national standard however, any component being released to a TSO must still be accompanied by the relevant release documentation as specified in paragraph 4.1.

6. Approval of Radio Apparatus for Aircraft.

It is a requirement of the Civil Aviation (Instrument & Equipment) Regulations that all radio and radio navigation equipment installed in aircraft registered in Barbados, shall be of a type approved by the BCAD in relation to the purpose for which it is to be used and shall, be installed in a manner approved by the BCAD and, neither the equipment nor the manner in which it is installed shall be modified except with the approval of the BCAD.

6.1 All radio and radio navigation equipment to be installed in aircraft registered in Barbados must be approved by the BCAD. In general, the BCAD will accept equipment that has UKCAA approval, FAA TSO approval and Transport Canada approval. However, the BCAD may require the operator to obtain positive support from the manufacturer or another regulatory authority that the equipment meets all safety criteria for installation in an aircraft.

6.2 All proposed changes of radio equipment or radio navigation equipment must be submitted to the BCAD as a modification for approval.